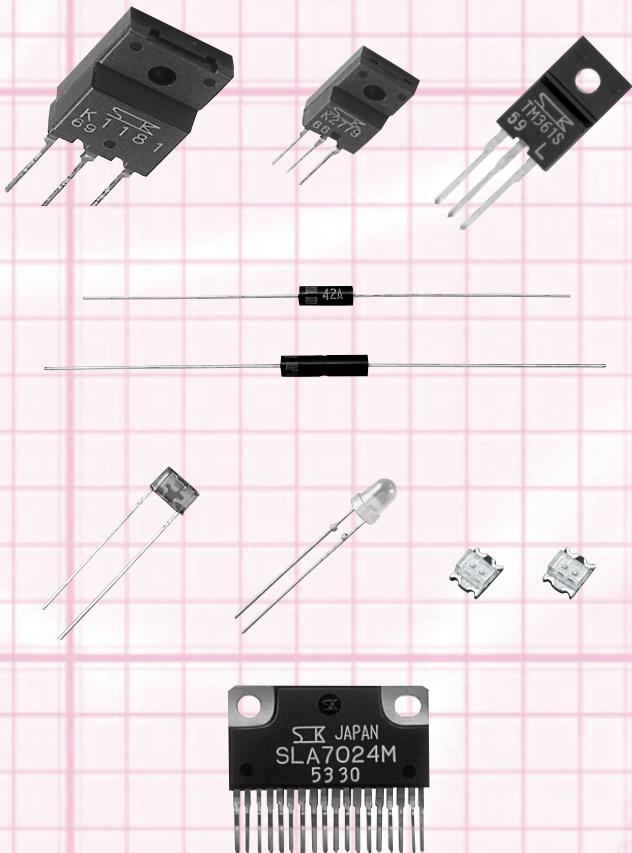


Bulletin No
002EE0
(Jul.,2002)

Sanken



SEMICONDUCTORS SHORT FORM CATALOG

ICs
TRANSISTORS
THYRISTORS
DIODES
LIGHT EMITTING DIODES

SANKEN ELECTRIC CO.,LTD.

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SANKEN SEMICONDUCTORS

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1-1-1 Dropper Type Regulator ICs

Low Dropout Surface Mount Regulator ICs

Series Name	Output Current (A)	Output Voltage (V)					Functions	Fig. No.
		1.2 (Variable)	1.8	2.5	3.3	5		
SI-3000LUS	0.25		SI-3018LUS	SI-3025LUS	SI-3033LUS	SI-3050LUS	Built-in foldback overcurrent protection Thermal protection	1
SI-3000LU	0.25	SI-3012LU	SI-3018LU	SI-3025LU	SI-3033LU	SI-3050LU	Built-in foldback overcurrent protection	2
SI-3000LSA	1.0		SI-3018LSA	SI-3025LSA	SI-3033LSA	SI-3050LSA	Thermal protection	3
SI-3000KS	1.0	SI-3012KS	SI-3018KS	SI-3025KS	SI-3033KS		Output ON/OFF control	

Low Dropout Voltage, 3-Terminal Regulator ICs (Dropout Voltage: $V_{DIF} \leq 1.0V$)

Series Name	Output Current (A)	Output Voltage (V)					Functions	Fig. No.
		5	9	12	15	24		
SI-3000N	1.0	SI-3050N	SI-3090N	SI-3120N	SI-3150N		Overcurrent protection	
SI-3003N	1.0	SI-3053N		SI-3123N	SI-3153N		(SI-3003N: Dropping type)	4
SI-3001N	1.5	SI-3051N	SI-3091N	SI-3121N	SI-3151N	SI-3241N	Overvoltage protection	
SI-3002N	2.0	SI-3052N	SI-3092N	SI-3122N	SI-3152N		Thermal protection	
SI-3000V	2.0	SI-3052V		SI-3122V	SI-3152V		Overcurrent protection	5

Low Dropout Voltage, 5-Terminal Regulator ICs (Dropout Voltage: $V_{DIF} \leq 1.0V$)

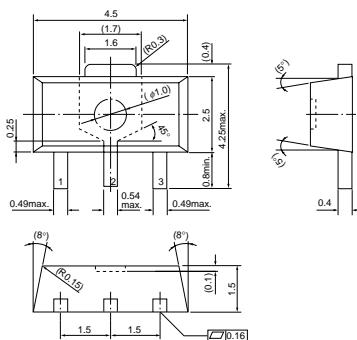
Series Name	Output Current (A)	Output Voltage (V)								Functions	Fig. No.
		3.3	5	9	12	15	15.7	24	Variable (3 to 24)		
SI-3000B	0.27						SI-3157B		SI-3025B	Adjustment of output voltage (rise only)	
SI-3000F	1.0		SI-3050F	SI-3090F	SI-3120F	SI-3150F	SI-3157F	SI-3240F	SI-3025F	Output ON/OFF control	6
SI-3000C	1.5	SI-3033C	SI-3050C	SI-3090C	SI-3120C	SI-3150C		SI-3240C		Overcurrent protection	
SI-3000J	2.0		SI-3050J	SI-3090J	SI-3120J	SI-3150J				Overvoltage protection	
										Thermal protection	

Low Dropout Voltage, 5-Terminal Regulator ICs with Built-in Reset Function (Dropout Voltage: $V_{DIF} \leq 1.0V$)

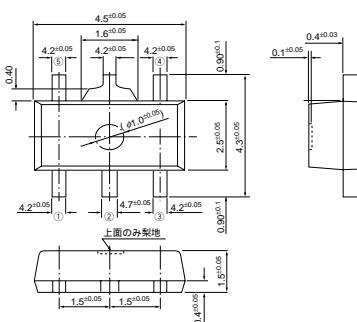
Series Name	Output Current (A)	Output Voltage (V)		Functions	Fig. No.
		5	15		
SI-3000R	1.5		SI-3050R	Overcurrent protection Overvoltage protection Thermal protection	6

External Dimensions

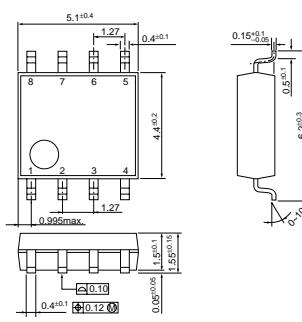
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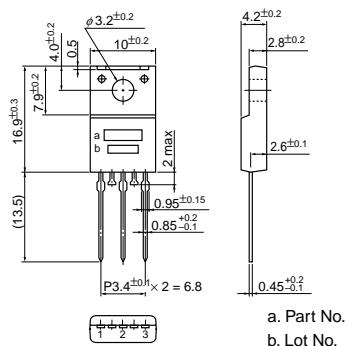
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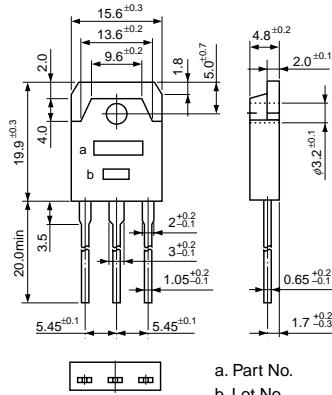
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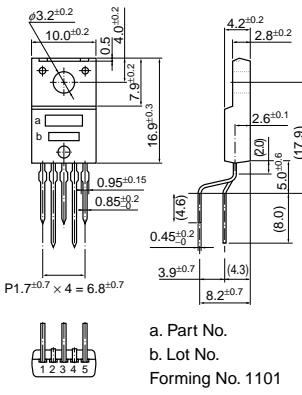
• No. 4



• No. 5



• No. 6



(unit: mm)

1-1-2 Switching Type Regulator ICs

■ Surface Mount Regulator ICs

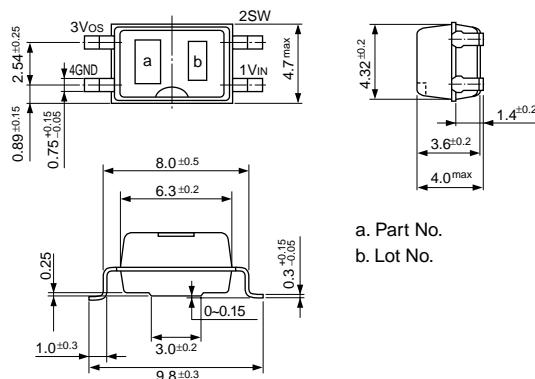
Series Name	Output Current (A)	Output Voltage (V)					Functions	Fig. No.
		3.3	5	9	12	15		
SAI	0.4			SAI06	SAI03	SAI04	Overcurrent protection Thermal protection Adjustment of output voltage (rise only)	1
	0.5		SAI02	SAI01				
SI-8000JD	1.5	SI-8033JD	SI-8050JD	SI-8090JD			Overcurrent protection Thermal protection Output ON/OFF control Soft start Adjustment of output voltage (rise only)	2
SI-8000SD	3.0	SI-8033SD	SI-8050SD				Overcurrent protection Thermal protection Output ON/OFF control Soft start Adjustment of output voltage (rise only)	2

■ 5-Terminal IC Regulators

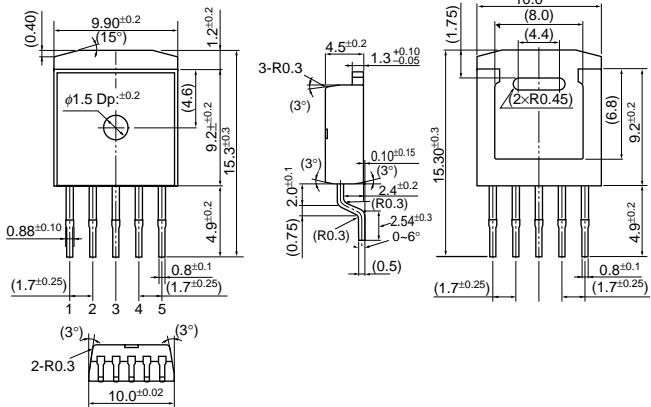
Series Name	Output Current (A)	Output Voltage (V)							Functions	Fig. No.
		1.5 (Variable)	2.5	3.3	5	9	12	15		
SI-8000E	0.6				SI-8050E	SI-8090E	SI-8120E		Overcurrent protection Thermal protection Adjustment of output voltage (rise only)	3
SI-8000JF	1.5	SI-8015JF	SI-8025JF	SI-8033JF	SI-8050JF	SI-8090JF	SI-8120JF		Overcurrent protection Thermal protection Output ON/OFF control	
SI-8000S	3.0			SI-8033S	SI-8050S	SI-8090S	SI-8120S	SI-8150S	Soft start Adjustment of output voltage (rise only)	

External Dimensions

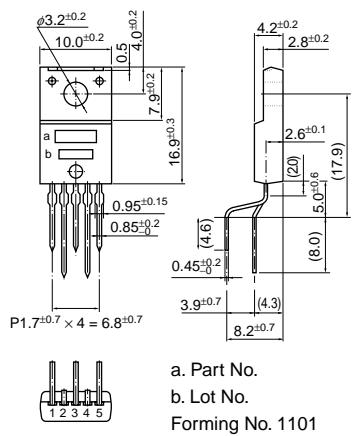
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• No. 2



• No. 3



Forming No. 1101

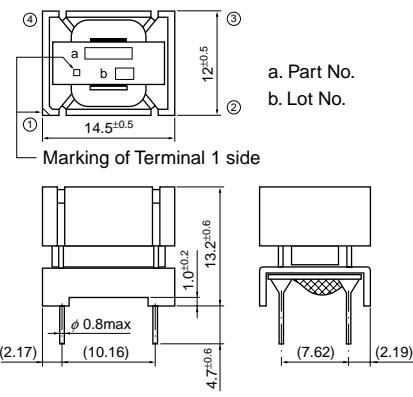
(unit: mm)

Regulator ICs with Coil

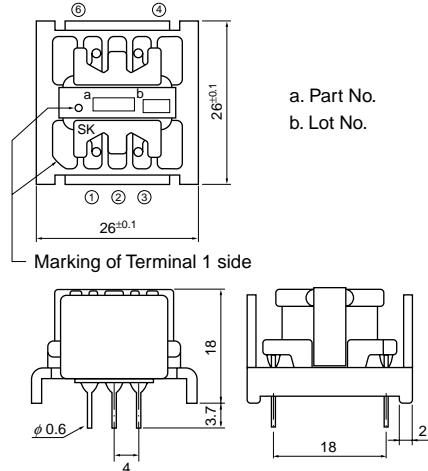
Series Name	Output Current (A)	Output Voltage (V)					Functions	Fig. No.
		3.3	5	9	12	15		
SI-8400L	0.4				SI-8402L	SI-8405L	Overcurrent protection Thermal protection	1
	0.5	SI-8403L	SI-8401L					
SI-8500L	1.0	SI-8503L	SI-8501L	SI-8504L	SI-8502L	SI-8505L	Overcurrent protection Thermal protection Output ON/OFF control Soft start	2

External Dimensions

No. 1



No. 2



(unit: mm)

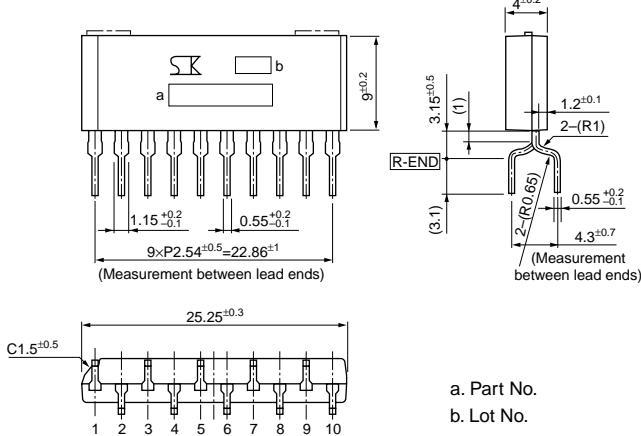
1-1-3 Multiple Output Regulator ICs

■ 2 Outputs

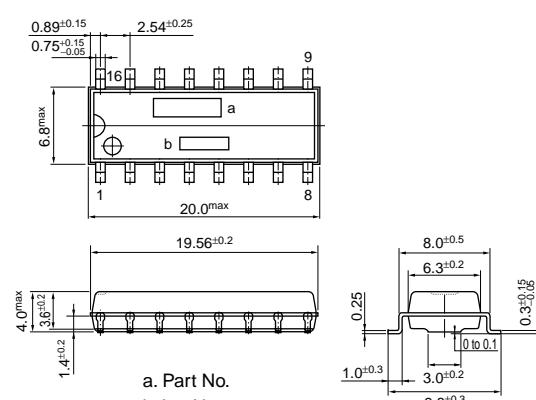
Part No.		V _O (V)	I _O (A)	Regulator Type	Functions	Fig. No.
STA801M	ch1	5.0	0.5	Switching Type	Overcurrent protection, Thermal protection, ON/OFF control, Soft start	1
	ch2	Select one: 9, 11.5, 12.1, 15.5	0.5			
STA802M	ch1	9.0	0.5	Switching Type	Overcurrent protection, Thermal protection, ON/OFF control, Soft start	1
	ch2	Select one: 9, 11.7, 12.1, 15.7	0.5			
SDI02	ch1	5.0	0.5	Dropper Type	Overcurrent protection, Thermal protection, Output terminal for overcurrent protection operation signal, V _O shutdown after overcurrent protection operation	2
	ch2	5.0	0.5			
SI-3101S	ch1	5.0	0.07	Dropper Type	Overcurrent protection, Overvoltage protection, Thermal protection Ch2 output ON/OFF control, for Automotive	3
	ch2	5.0	0.5			
SI-3102S	ch1	5.0	0.04	Dropper Type	Overcurrent protection, Overvoltage protection, Thermal protection Ch2 output ON/OFF control, for Automotive	3
	ch2	5.0	0.1			

External Dimensions

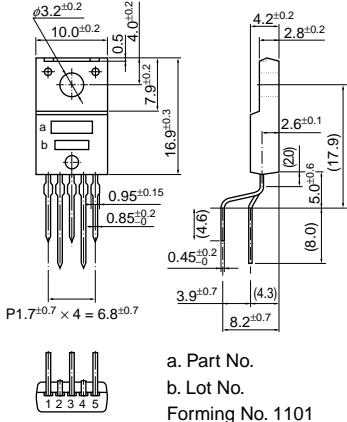
• No. 1



• No. 2



• No. 3



(unit: mm)

■3-Outputs

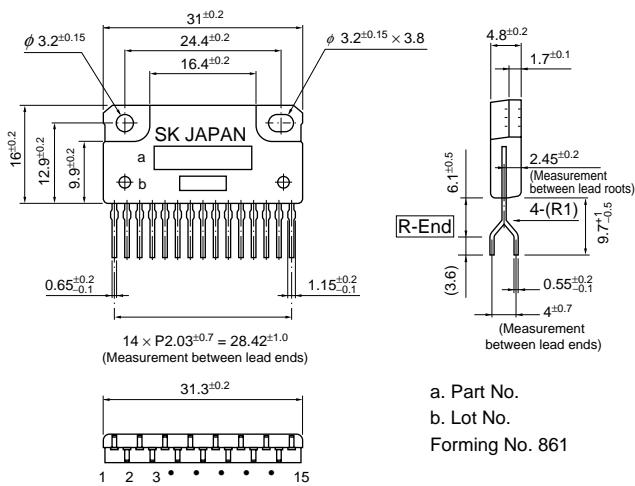
Part No.		Vo(V)	Io(A)	Regulator Type	Functions	Fig. No.
SLA3001M	Reg1	12	1.5	Dropper Type	Dropper type: Overcurrent protection Overvoltage protection Thermal protection	1
	Reg2	5.0	1.5		Adjustment of output voltage (rise only) Output ON/OFF control	
	Reg3	9.0	1.5		Switching Type Overcurrent protection Thermal protection	
SLA3002M	Reg1	5.0	0.5	Switching Type		1
	Reg2	15.7	1.0	Dropper Type		
	Reg3	9.0	0.4	Switching Type		
SLA3004M	Reg1	5.0	0.5	Switching Type		1
	Reg2	9.0	0.4			
	Reg3	9.0	0.4			

■4-Outputs

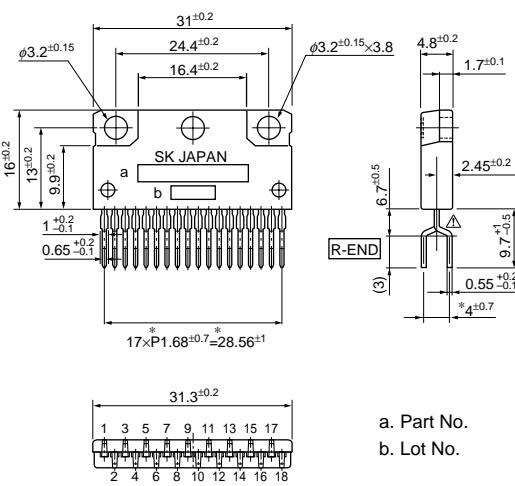
Part No.		Vo(V)	Io(A)	Regulator Type	Functions	Fig. No.
SLA3005M	ch1	5.0	0.5	Dropper Type	Overcurrent protection (Vo shutdown after operation) Thermal protection Output terminal for overcurrent protection operation signal	2
	ch2	5.0	0.5			
	ch3	5.0	0.5			
	ch4	5.0	0.5			
SLA3006M	ch1	5.0	0.5	Dropper Type	Overcurrent protection Thermal protection Output terminal for overcurrent protection operation signal	2
	ch2	5.0	0.5			
	ch3	5.0	0.5			
	ch4	5.0	0.5			
SLA3007M	ch1	5.0	0.5	Dropper Type	Overcurrent protection (Vo shutdown after operation) Thermal protection Output terminal for overcurrent protection operation signal	2
	ch2	5.0	0.5			
	ch3	5.0	0.5			
	ch4	3.3	0.5			

External Dimensions

• No. 1



• No. 2



a. Part No.
b. Lot No.

(unit: mm)

1-2-1 2-Phase Motor Unipolar Driver ICs

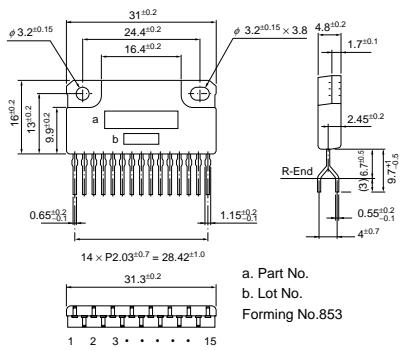
Part No.	Output Current (A)	Supply Voltage (V)	Step Sequence Mode	Package	Remarks	Fig. No.	
SLA7022MU	1	~46	2-phase/1-2 phase excitation	ZIP15Pin With Fin		1	
SMA7022MU				ZIP15Pin		2	
SLA7029M				ZIP15Pin With Fin		1	
SMA7029M				ZIP15Pin		2	
SMA7036M				ZIP15Pin	Equivalent to SMA7029M		
SDK03M	1	~46	2-phase/1-2 phase/W1-2 phase excitation	SMD16Pin	1 motor driven by 2 ICs	3	
SLA7027MU				ZIP18Pin With Fin			
SLA7024M	1.5	~46		ZIP18Pin With Fin			
SLA7032M				ZIP18Pin With Fin	Equivalent to SLA7024M		
SLA7026M	3			ZIP18Pin With Fin		4	
SLA7033M				ZIP18Pin With Fin	Equivalent to SLA7026M		
SLA7042M	1.2	~46	2W1-2 phase	ZIP18Pin With Fin			
SLA7044M	3		Supporting μ Step	ZIP18Pin With Fin			

• Serial Signal Generator for SLA704xM

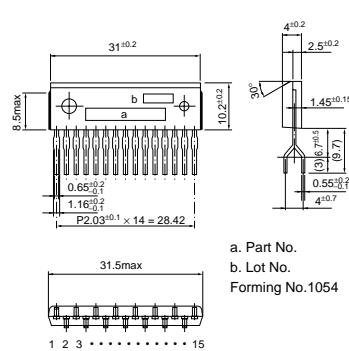
Part No.	Supply Voltage (V)	Package	Fig. No.
PG001M	4.5~5.5	DIP16Pin	5

External Dimensions

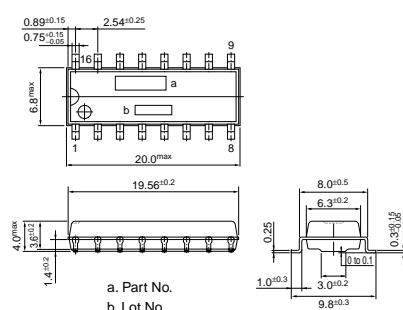
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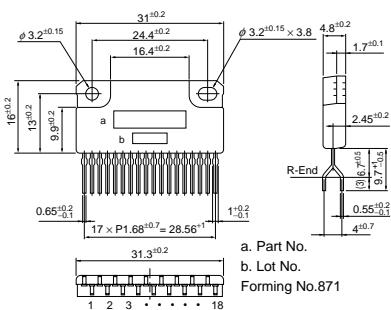
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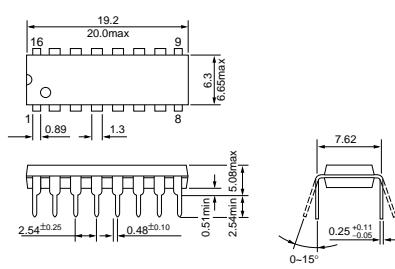
• No. 3



• No. 4



• No. 5



(unit: mm)

1-2-2 3-Phase Motor Driver ICs

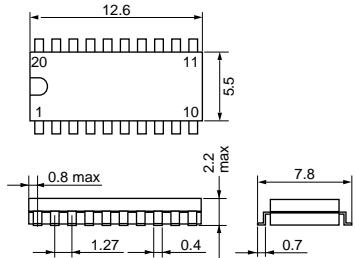
Part No.	Output Current (A)	Supply Voltage (V)	Step Sequence Mode	Package	Remarks	Fig. No.
SI-7600	3.0	15~45	2-phase/2-3 phase excitation	SOP20Pin	Use in pair with SLA5017, etc.	1
SI-7600D				DIP20Pin		2
SLA-7611M		36 (max)		ZIP18Pin With Fin		3

1-2-3 5-Phase Motor Driver Control ICs

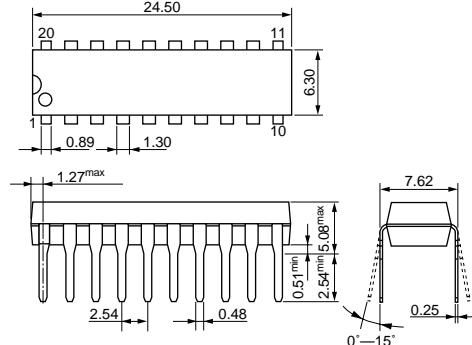
Part No.	Supply Voltage (V)	Step Sequence Mode	Package	Remarks	Fig. No.
SI-7502	15~42	For pentagonal connection drive	Powder coating 27pin	Use with SLA6503 and SLA5011	4

External Dimensions

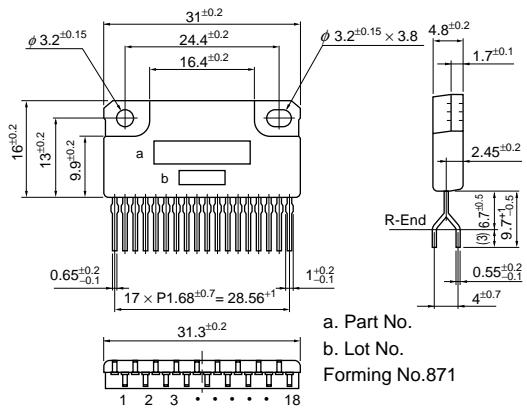
• No. 1



• No. 2



• No. 3

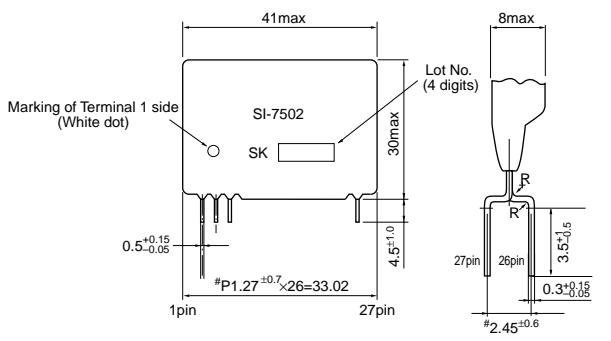


a. Part No.

b. Lot No.

Forming No.871

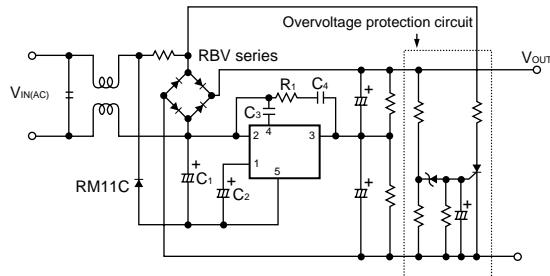
No. 4



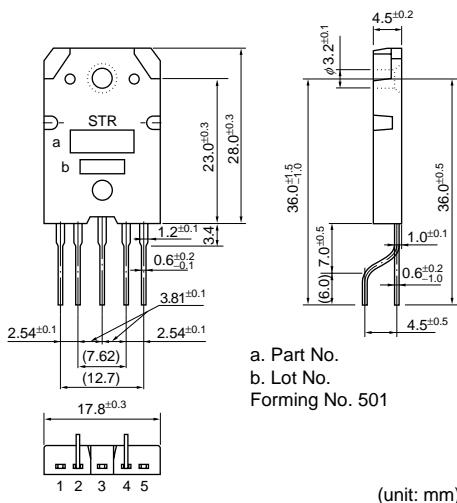
(Note) # indicates the measurement between lead ends.

(unit: mm)

Setting Swithcover Voltage		RMS On-state CurrentIT (RMS) (A)		Remarks	Fig. No.
Vc(DC) (V)	Vc(AC) (V)	5	10		
205±5	145	STR82145	STR83145	With latching capability	
225±5	159		STR83159	With latching capability	1

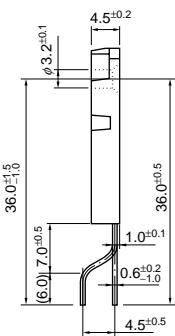
Example of application circuit

C₁: 4.7μF/400V, C₂: 1μF/50V, C₃: 0.047μF/50V (Observe strictly)
C₄: 0.047μF/250V, R₁: 4.7Ω

External Dimensions**• No. 1**

a. Part No.
b. Lot No.
Forming No. 501

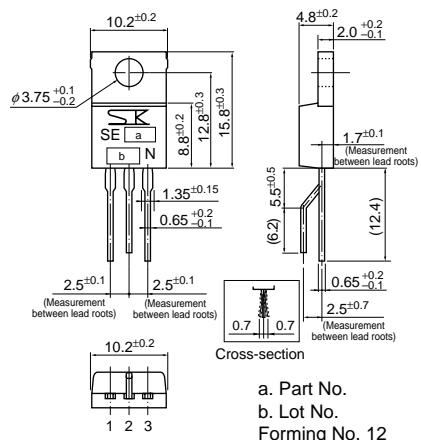
(unit: mm)



Part No.	Output Detection Voltage Vs (V)	Collector-Ground Voltage VCGO (V)	Collector Current Ic (mA)	Package	Remarks	Fig. No.
SE005N	5.0±0.1	12	50	TO-220	Variable voltage detection Gain adjustment possible	1
SE012N	12.0±0.2					
SE015N	15.0±0.2					
SE024N	24.0±0.2					
SE034N	34.0±0.3					
SE040N	40.0±0.4					
SE070N	70.2±0.8					
SE080N	80.2±0.8					
SE090N	90.0±0.8					
SE105N	105.2±0.8					
SE110N	110.2±0.8					
SE115N	115.2±0.8					
SE120N	120.2±0.8					
SE125N	125.2±0.8					
SE130N	130.2±0.8					
SE135N	135.2±0.8					
SE140N	141.2±0.8					
SE-B3	$I_{IN}=4\text{m},$ $R_C=9.1\text{k}\Omega$ $R_S=88.7\text{k}\Omega$					

External Dimensions

• No. 1



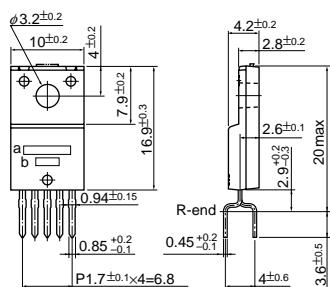
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b. Lot No.
Forming No. 12

(unit: mm)

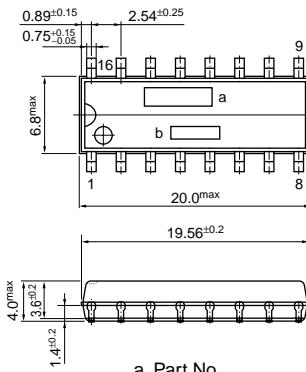
Part No.	Classification	Number of Circuits	Supply of Circuits (V)	Output Current (A)	Allowable Power Dissipation without Heatsink (W)	Package	Protection Circuit	Fig. No.	
SI-5151S	High-side power switch with diagnosis function	1 circuit	40	1.8	1.5	TO-220F 5Pin	Built-in overcurrent and thermal protection circuits	1	
SI-5152S				1.8	1.8				
SI-5153S				2.04	1.8				
SI-5154S				2.5	1.8				
SI-5155S				2.5	1.8				
SDH04		2 circuits	35	1.5	2.6	SMD16Pin		2	
SPF5003				1.8	1.8				
SPF5004				2.5	2.7	SMD24Pin		3	
SLA2501M		3 circuits	40	1.5	4.8	SIP15Pin		4	
SPF5007				1.8	2.7	SMD24Pin		5	
SLA2502M	Low-side power switch	4 circuits	40	1.2	4.8	SIP15Pin		5	
SPF5002A				1.8	2.0	SMD16Pin	Built-in overcurrent, overvoltage and thermal protection circuit	3	
SPF5009				2.9	2.8	SMD24Pin		4	
SPF5012		4 circuits	40	Self limited	5.0				

External Dimensions

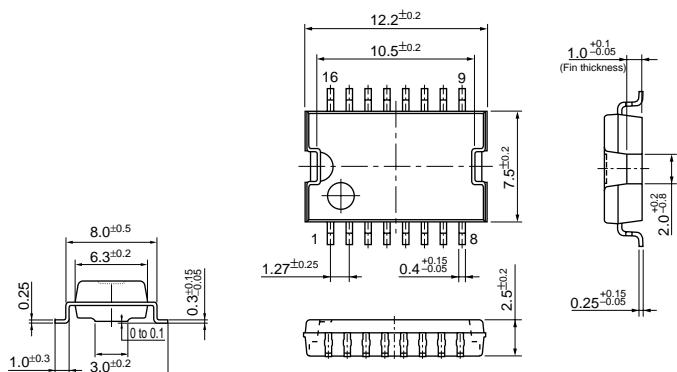
• No. 1



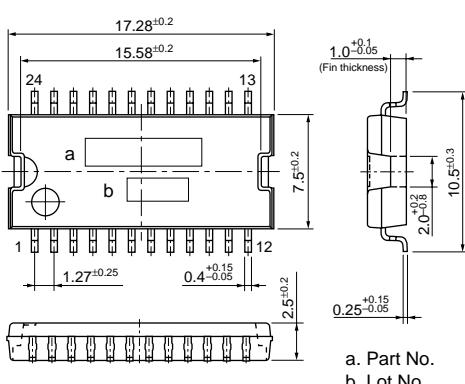
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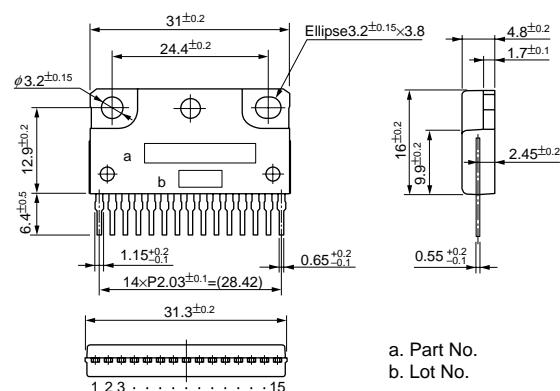
• No. 3



• No. 4



• No. 5



(unit: mm)

2

Transistors

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2-1-1 Transistors for Audio Amplifiers

Complementary Transistors for Output

Pc (W)	Ic (A)	V _{CEO} (V)	Chip				Package	Fig. No.		
			Single Transistor		Darlington					
			General	LAPT						
30	6	80	2SA1725	2SC4511			TO-220F	1		
	6	110				2SB1686	2SD2642			
50	6	80	2SA1726	2SC4512			TO-220	2		
	6	110				2SB1659	2SD2589			
60	6	80	2SA1693	2SC4466			TO-3P	3		
	6	80	2SA1907	2SC5099						
	6	110				2SB1685	2SD2641	TO-3P		
	6	110				2SB1687	2SD2643			
75	8	120	2SA1908	2SC5100			TO-3PF	4		
	8	150				2SB1587	2SD2438			
80	8	120	2SA1694	2SC4467			TO-3P	3		
	10	140	2SA1909	2SC5101						
	8	150				2SB1559	2SD2389	TO-3P		
	10	150				2SB1588	2SD2439			
	14	150		2SA1860	2SC4886		TO-3PF	4		
85	15	150				2SB1649	2SD2562			
	15	180	2SA1673	2SC4388			TO-3PF	4		
100	10	140	2SA1695	2SC4468			TO-3P	3		
	10	150		2SA1186	2SC2837					
	10	150				2SB1560	2SD2390	TO-3P		
125	14	150		2SA1303	2SC3284		TO-3P	3		
130	15	150				2SB1647	2SD2560			
	15	160		2SA1386	2SC3519		TO-3P	3		
	15	180	2SA1492	2SC3856						
	15	180		2SA1386A	2SC3519A		TO-3P	3		
	15	230		2SA1294	2SC3263					
150	12	150				2SB1570	2SD2401	MT-200 (2-screw mount)		
	15	160		2SA1215	2SC2921		MT-200 (2-screw mount)	5		
	15	200	2SA1493	2SC3857						
200	17	150				2SB1648	2SD2561	MT-200 (2-screw mount)		
	17	180		2SA1216	2SC2922		MT-200 (2-screw mount)	5		
	17	200	2SA1494	2SC3858						
	17	230		2SA1295	2SC3264		MT-200 (2-screw mount)			

LAPT: Multi-Emitter for High Frequency

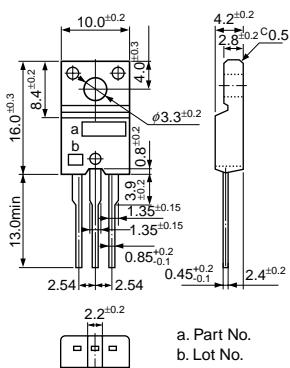
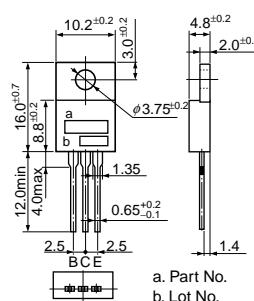
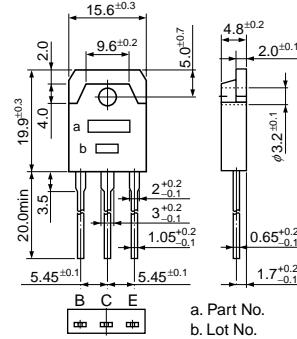
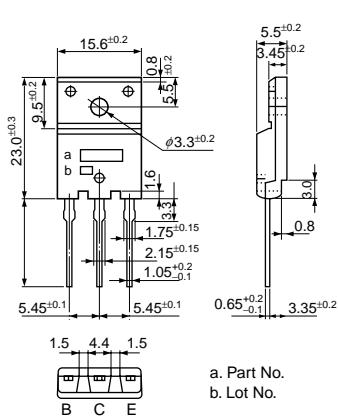
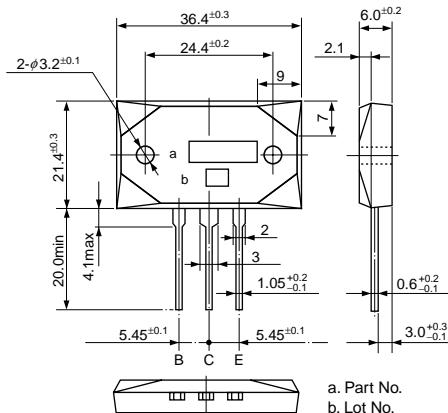
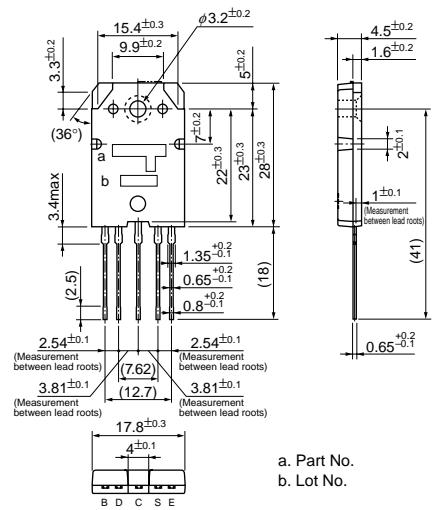
Complementary Transistors for Output built-in Temperature Compensation

Part No.	Pc(W)	Ic(A)	V _{CEO} (V)	Package			Fig. No.
SAP09P	SAP09N	80	10	150	Original 5-pin power package		
SAP10P	SAP10N	100	12	150	Original 5-pin power package		
SAP16P	SAP16N	150	15	160	Original 5-pin power package		

Transistors for Driver and Temperature Compensation

Part No.	Pc(W)	V _{CEO} (V)	Ic(A)	h _{FE} (min)	f _T (MHz)	Package	Remarks	Fig. No.
2SC4495	25	50	3	500	40	TO-220F	Temperature compensation	1
2SA1859	2SC4883	20	150	2	60	60/120	TO-220F	
2SA1859A	2SC4883A	20	180	2	60	60/120	TO-220F	
							Driver	

External Dimensions

• No. 1 (TO-220F)

• No. 2 (TO-220)

• No. 3 (TO-3P)

• No. 4 (TO-3PF)

• No. 5 (MT-200)

• No. 6 (SAP)


(unit: mm)

2-1-2 Transistors for SMPS

Transistors for DC-DC Converter

Part No.	V _{CBO} (V)	V _{CEO} (V)	I _c (A)	P _c (W)	Package	Fig. No.	
2SC5370	60	40	12	30	TO-220F		
2SC4024		100	50	10	TO-220F		
2SC4131				15	TO-3PF	2	
2SC4153				30	TO-220F	1	
2SC3834		200	120	7	TO-220	3	
2SC3835					70	TO-3P	4

Transistors for AC100V Input

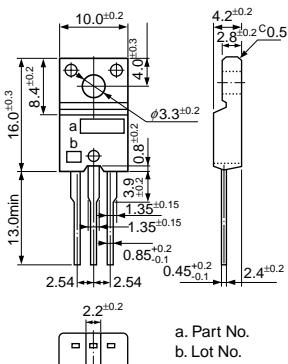
Part No.	V _{CBO} (V)	V _{CEO} (V)	I _c (A)	P _c (W)	Package	Fig. No.	
2SC5271	250	200	5	30	TO-220F		
2SC4073				30	TO-220F		
2SC4418			5	30	TO-220F		
2SC4662				30	TO-220F		
2SC3890				30	TO-220F		
2SC4130			7	30	TO-220F		
2SC3832				50	TO-220	3	
2SC4296				75	TO-3PF	2	
2SC4138			10	80	TO-3P	4	
2SC4297				75	TO-3PF	2	
2SC3833			12	100	TO-3P	4	
2SC5071				100	TO-3P		
2SC4298				80	TO-3PF	2	
2SC4139			15	120	TO-3P		
2SC4434				120	TO-3P		
2SC4140				18	130	TO-3P	
2SC5130			400	5	TO-220F		
2SC4546				7	30	TO-220F	
2SC4907				6	30	TO-220F	
2SC3830			500	50	TO-220	3	
2SC3831				10	100	TO-3P	
2SC5249			600	3	35	TO-220F	1

Transistors for AC200V Input

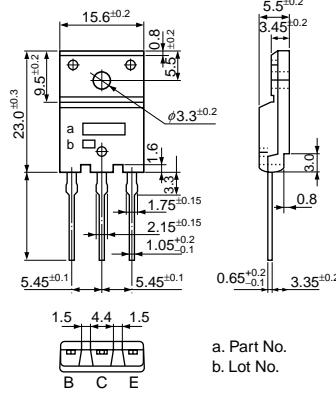
Part No.	V _{CBO} (V)	V _{CEO} (V)	I _c (A)	P _c (W)	Package	Fig. No.	
2SC4517			3	30	TO-220F	1	
2SC5239				50	TO-220	3	
2SC4518			5	35	TO-220F	1	
2SC5287				80	TO-3P	4	
2SC4557			10	80	TO-3PF	2	
2SC3927				120	TO-3P	4	
2SC5586			600	5	70	TO-3PF	2
2SC4706				14	130	TO-3P	4
2SC4908					35	TO-220F	1
2SC4304					35	TO-220F	
2SC4020			3	50	TO-220	3	
2SC4445				60	TO-3PF		
2SC4299				70	TO-3PF	2	
2SC3678				80	TO-3P	4	
2SC4300			5	75	TO-3PF	2	
2SC3679				100	TO-3P	4	
2SC4301				80	TO-3PF	2	
2SC3680			7	120	TO-3P	4	
2SC4517A			1000	3	30	TO-220F	
2SC4518A				5	35	TO-220F	1
2SC5002			1500	7	80	TO-3PF	
2SC5124			800	10	100	TO-3PF	2

External Dimensions

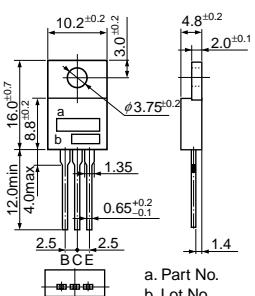
• No. 1 (TO-220F)



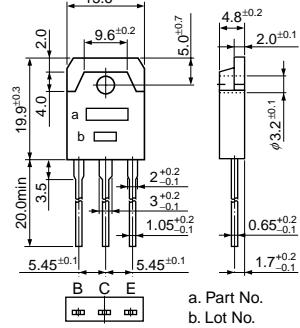
• No. 2 (TO-3PF)



• No. 3 (TO-220)



• No. 4 (TO-3P)



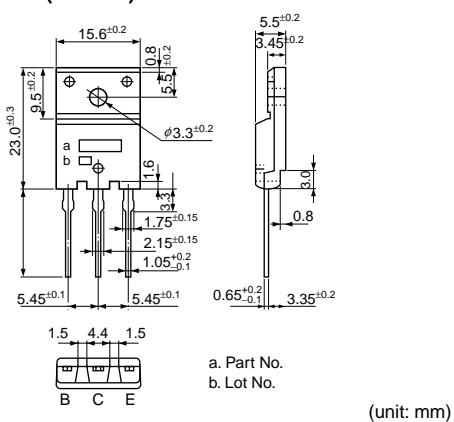
(unit: mm)

2-1-3 Transistors for Display Deflection Output

Part No.	V _{CBO} (V)	V _{CEO} (V)	I _c (A)	P _c (W)	Package	Fig. No.
2SC5002	1500	800	7	80	TO-3PF	1
2SC5124			10	100		

External Dimensions

• No. 1 (TO-3PF)



2-1-4 List of General Purpose Transistors by Part No.

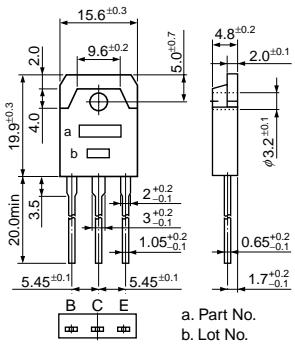
Part No.	V _{CEO} (V)	V _{CBO} (V)	I _c (A)	P _c (W)	Package	Remarks	Fig. No.
2SA1186	-150	-150	-10	100	TO-3P	LAPT	1
2SA1215	-160	-160	-15	150	MT-200 (2-screw mount)	LAPT	2
2SA1216	-180	-180	-17	200	MT-200 (2-screw mount)	LAPT	
2SA1262	-60	-60	-4	30	TO-220		3
2SA1294	-230	-230	-15	130	TO-3P	LAPT	1
2SA1295	-230	-230	-17	200	MT-200 (2-screw mount)	LAPT	2
2SA1303	-150	-150	-14	125	TO-3P	LAPT	
2SA1386	-160	-160	-15	130	TO-3P	LAPT	1
2SA1386A	-180	-180	-15	130	TO-3P	LAPT	
2SA1488	-60	-60	-4	25	TO-220F		4
2SA1488A	-80	-80	-4	25	TO-220F		
2SA1492	-180	-180	-15	130	TO-3P		1
2SA1493	-200	-200	-15	150	MT-200 (2-screw mount)		2
2SA1494	-200	-200	-17	200	MT-200 (2-screw mount)		
2SA1567	-50	-50	-12	35	TO-220F	Low V _{CE} (sat)	
2SA1568	-60	-60	± 12	35	TO-220F	Low V _{CE} (sat)	4
2SA1667	-150	-150	-2	25	TO-220F		
2SA1668	-200	-200	-2	25	TO-220F		
2SA1673	-180	-180	-15	85	TO-3PF		5
2SA1693	-80	-80	-6	60	TO-3P		
2SA1694	-120	-120	-8	80	TO-3P		1
2SA1695	-140	-140	-10	100	TO-3P		
2SA1725	-80	-80	-6	30	TO-220F		4
2SA1726	-80	-80	-6	50	TO-220		3
2SA1746	-70	-50	-12	60	TO-3PF	Low V _{CE} (sat)	5
2SA1859	-150	-150	-2	20	TO-220F		
2SA1859A	-180	-180	-2	20	TO-220F		4
2SA1860	-150	-150	-14	80	TO-3PF	LAPT	
2SA1907	-80	-80	-6	60	TO-3PF		
2SA1908	-120	-120	-8	75	TO-3PF		
2SA1909	-140	-140	-10	80	TO-3PF		
2SA2003	-60	-60	-5	25	TO-220F		
2SA2042	-50	-50	-10	30	TO-220F		
2SB1257	-60	-60	-4	25	TO-220F	Darlington	
2SB1258	-100	-100	-6	30	TO-220F	Darlington	4
2SB1259	-120	-120	-10	30	TO-220F	Darlington	
2SB1351	-60	-60	-12	30	TO-220F	Darlington	
2SB1352	-60	-60	-12	60	TO-3PF	Darlington	
2SB1382	-120	-120	-16	75	TO-3PF	Darlington	5
2SB1383	-120	-120	-25	120	TO-3P	Darlington	
2SB1420	-120	-120	-16	80	TO-3P	Darlington	1
2SB1559	-160	-160	-8	80	TO-3P	Darlington	
2SB1560	-160	-150	-10	100	TO-3P	Darlington	
2SB1570	-160	-150	-12	150	MT-200 (2-screw mount)	Darlington	2
2SB1587	-160	-150	-8	75	TO-3PF	Darlington	
2SB1588	-160	-150	-10	80	TO-3PF	Darlington	
2SB1647	-150	-150	-15	130	TO-3P	Darlington	1
2SB1648	-150	-150	-17	200	MT-200 (2-screw mount)	Darlington	2
2SB1649	-150	-150	-15	85	TO-3PF	Darlington	5
2SB1659	-110	-110	-6	50	TO-220	Darlington	3
2SB1685	-110	-110	-6	60	TO-3P	Darlington	1
2SB1686	-110	-110	-6	30	TO-220F	Darlington	4
2SB1687	-110	-110	-6	60	TO-3PF	Darlington	5
2SC2023	300	300	2	40	TO-220		3
2SC2837	150	150	10	100	TO-3P	LAPT	1
2SC2921	160	160	15	150	MT-200 (2-screw mount)	LAPT	
2SC2922	180	180	17	200	MT-200 (2-screw mount)	LAPT	2
2SC3179	80	60	4	30	TO-220		3
2SC3263	230	230	15	130	TO-3P	LAPT	1
2SC3264	230	230	17	200	MT-200 (2-screw mount)	LAPT	2

Part No.	V _{CEO} (V)	V _{CEO} (V)	I _c (A)	P _c (W)	Package	Remarks	Fig. No.
2SC3284	150	150	14	125	TO-3P	LAPT	
2SC3519	160	160	15	130	TO-3P	LAPT	
2SC3519A	180	180	15	130	TO-3P	LAPT	
2SC3678	900	800	3	80	TO-3P		1
2SC3679	900	800	5	100	TO-3P		
2SC3680	900	800	7	120	TO-3P		
2SC3830	600	500	6	50	TO-220		3
2SC3831	600	500	10	100	TO-3P		1
2SC3832	500	400	7	50	TO-220		3
2SC3833	500	400	12	100	TO-3P		1
2SC3834	200	120	7	50	TO-220		3
2SC3835	200	120	7	70	TO-3PF		5
2SC3851	80	60	4	25	TO-220F		
2SC3851A	100	80	4	25	TO-220F		
2SC3852	80	60	3	25	TO-220F	High h _{FE} /Low V _{CE(sat)}	4
2SC3852A	100	80	3	25	TO-220F	High h _{FE} /Low V _{CE(sat)}	
2SC3856	180	180	15	130	TO-3P		1
2SC3857	200	200	15	150	MT-200 (2-screw mount)		2
2SC3858	200	200	17	200	MT-200 (2-screw mount)		
2SC3890	500	400	7	30	TO-220F		4
2SC3927	900	550	10	120	TO-3P		1
2SC4020	900	800	3	50	TO-220		3
2SC4024	100	50	10	35	TO-220F	High h _{FE} /Low V _{CE}	4
2SC4064	50	50	12	35	TO-220F	Low V _{CE(sat)}	
2SC4065	60	60	±12	35	TO-220F	Low V _{CE(sat)}	
2SC4073	500	400	5	30	TO-220F		
2SC4130	500	400	7	30	TO-220F		
2SC4131	100	50	15	60	TO-3PF	Low V _{CE(sat)}	5
2SC4138	500	400	10	80	TO-3P		
2SC4139	500	400	15	120	TO-3P		1
2SC4140	500	400	18	130	TO-3P		
2SC4153	200	120	7	30	TO-220F		4
2SC4296	500	400	10	75	TO-3PF		
2SC4297	500	400	12	75	TO-3PF		
2SC4298	500	400	15	80	TO-3PF		5
2SC4299	900	800	3	70	TO-3PF		
2SC4300	900	800	5	75	TO-3PF		
2SC4301	900	800	7	80	TO-3PF		
2SC4304	900	800	3	35	TO-220F		
2SC4381	150	150	2	25	TO-220F		4
2SC4382	200	200	2	25	TO-220F		
2SC4388	200	180	15	85	TO-3PF		5
2SC4418	500	400	5	30	TO-220F		4
2SC4434	500	400	15	120	TO-3P		1
2SC4445	900	800	3	60	TO-3PF		5
2SC4466	120	80	6	60	TO-3P		
2SC4467	160	120	8	80	TO-3P		1
2SC4468	200	140	10	100	TO-3P		
2SC4495	80	50	3	25	TO-220F	High h _{FE} /Low V _{CE(sat)}	4
2SC4511	120	80	6	30	TO-220F		
2SC4512	120	80	6	50	TO-220		3
2SC4517	900	550	3	30	TO-220F		
2SC4517A	1000	550	3	30	TO-220F		
2SC4518	900	550	5	35	TO-220F		
2SC4518A	1000	550	5	35	TO-220F		
2SC4546	600	400	7	30	TO-220F		
2SC4557	900	550	10	80	TO-3PF		5
2SC4662	500	400	5	30	TO-220F		4
2SC4706	900	600	14	130	TO-3P		1
2SC4883	150	150	2	20	TO-220F		
2SC4883A	180	180	2	20	TO-220F		4
2SC4886	150	150	14	80	TO-3PF	LAPT	5

Part No.	V _{CEO} (V)	V _{CBO} (V)	I _c (A)	P _c (W)	Package	Remarks	Fig. No.
2SC4907	600	500	6	30	TO-220F		4
2SC4908	900	800	3	35	TO-220F		
2SC5002	1500	800	7	80	TO-3PF		5
2SC5071	500	400	12	100	TO-3P		1
2SC5099	120	80	6	60	TO-3PF		
2SC5100	160	120	8	75	TO-3PF		
2SC5101	200	140	10	80	TO-3PF		
2SC5124	1500	800	10	100	TO-3PF		
2SC5130	600	400	5	30	TO-220F		4
2SC5239	900	550	3	50	TO-220		3
2SC5249	600	600	3	35	TO-220F		
2SC5271	250	200	5	30	TO-220F		4
2SC5287	900	550	5	80	TO-3P		1
2SC5333	300	300	2	35	TO-220F		
2SC5370	60	40	12	30	TO-220F	Low V _{ce(sat)}	4
2SC5487	60	60	5	25	TO-220F		
2SC5586	900	550	5	80	TO-3PF		5
2SD1769	120	120	6	50	TO-220	Darlington	3
2SD1785	120	120	6	30	TO-220F	Darlington	
2SD1796	60±10	60±10	4	25	TO-220F	Darlington	
2SD2014	120	80	4	25	TO-220F	Darlington	
2SD2015	150	120	4	25	TO-220F	Darlington	
2SD2016	200	200	3	25	TO-220F	Darlington	
2SD2017	300	250	6	35	TO-220F	Darlington	
2SD2045	120	120	6	50	TO-3PF	Darlington	5
2SD2081	120	120	10	30	TO-220F	Darlington	4
2SD2082	120	120	16	75	TO-3PF	Darlington	5
2SD2083	120	120	25	120	TO-3P	Darlington	1
2SD2141	380±50	380±50	6	35	TO-220F	Darlington	4
2SD2389	160	150	8	80	TO-3P	Darlington	
2SD2390	160	150	10	100	TO-3P	Darlington	1
2SD2401	160	150	12	150	MT-200 (2-screw mount)	Darlington	2
2SD2438	160	150	8	75	TO-3PF	Darlington	
2SD2439	160	150	10	80	TO-3PF	Darlington	5
2SD2557	200	200	5	70	TO-3P	Darlington	1
2SD2558	200	200	5	60	TO-3PF	Darlington	5
2SD2560	150	150	15	130	TO-3P	Darlington	1
2SD2561	150	150	17	200	MT-200 (2-screw mount)	Darlington	2
2SD2562	150	150	15	85	TO-3PF	Darlington	5
2SD2589	110	110	6	50	TO-220	Darlington	3
2SD2641	110	110	6	60	TO-3P	Darlington	1
2SD2642	110	110	6	30	TO-220F	Darlington	4
2SD2643	110	110	6	60	TO-3PF	Darlington	5

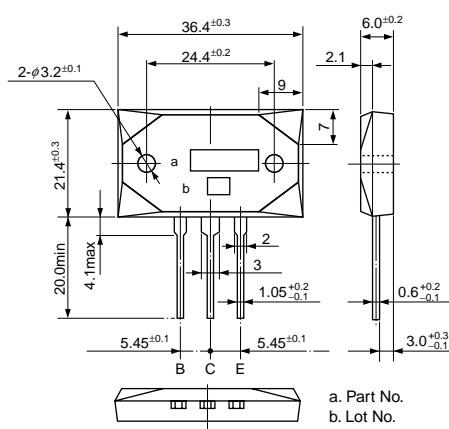
External Dimensions

• No. 1 (TO-3P)



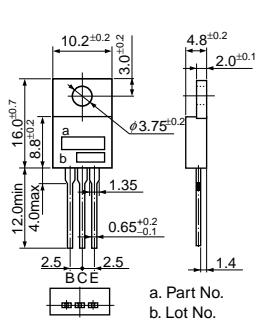
a. Part No.
b. Lot No.

• No. 2 (MT-200)



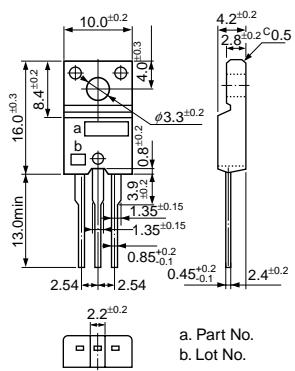
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b. Lot No.

• No. 3 (TO-220)



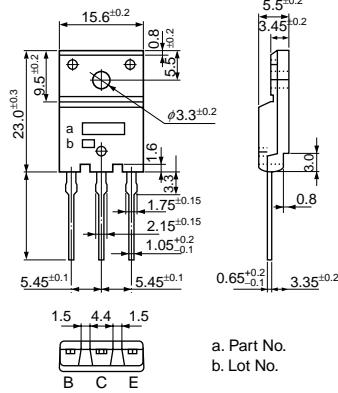
a. Part No.
b. Lot No.

• No. 4 (TO-220F)



a. Part No.
b. Lot No.

• No. 5 (TO-3PF)

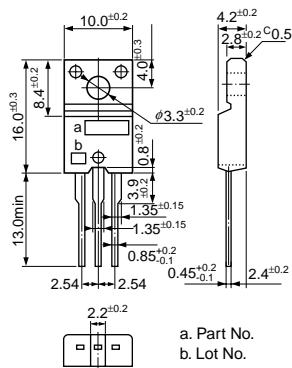
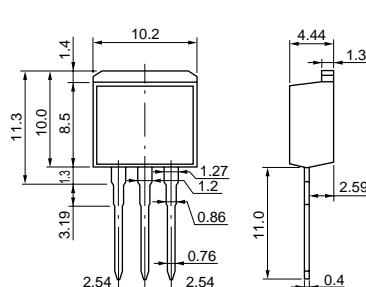
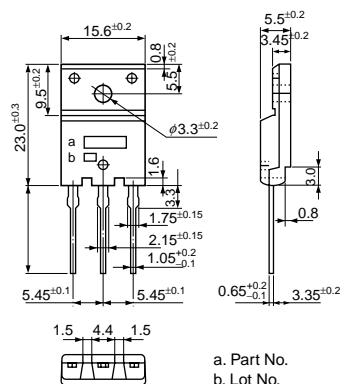
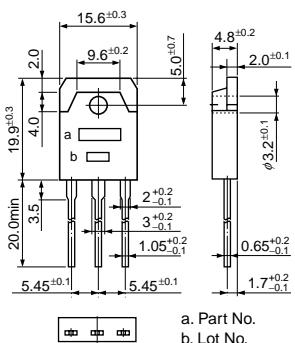


a. Part No.
b. Lot No.

(unit: mm)

Part No.	V _{DSS} (V)	R _{D(on)} (max) (Ω)	I _D (A)	Package	Remarks	Fig. No.
FKV460	40	9mΩ	60	TO-220F	Under development, For Automotive	1
FKV460S			60	TO-220S	For Automotive	2
FKV560	50	11mΩ	60	TO-220F	For Automotive	1
FKV560S			60	TO-220S	Under development, For Automotive	2
FKV550T			50	TO-220F		1
MVK670	60	6.5mΩ	70	TO-3P	For Automotive	4
2SK1188		0.2	10	TO-220F		
2SK1189		0.1	15	TO-220F		
2SK1712		0.1	15	TO-220F	Logic Drive	
2SK1190		50mΩ	22	TO-220F		1
2SK2419		37mΩ	25	TO-220F		
2SK1191		28mΩ	30	TO-220F		
2SK2420		28mΩ	30	TO-220F		
2SK1192		14mΩ	40	TO-3PF		3
2SK2421		20mΩ	40	TO-220F		
FKV660		50	TO-220F	Under development, For Automotive	1	
FKV660S		60	TO-220S	For Automotive	2	
2SK1185	100	0.54	5	TO-220F		
2SK1186		0.27	9	TO-220F		
2SK1187		0.16	12	TO-220F		
2SK2778		0.175	12	TO-220F	Under development, Logic Drive	
2SK2779		80mΩ	20	TO-220F	Logic Drive	
2SK3332	150	0.2	12	TO-220F	Logic Drive	
2SK3460		95mΩ	18	TO-220F		
2SK1183	200	1.5	3	TO-220F		1
2SK1184		0.8	5	TO-220F		
2SK3002		0.35	8	TO-220F	Under development	
2SK3003		0.175	18	TO-220F		
2SK3004	250	0.25	18	TO-220F		
2SK2803	450	2.8	3	TO-220F		
2SK2701		1.1	7	TO-220F		
2SK2702		0.8	10	TO-220F	Under development	
2SK2703		0.57	10	TO-3PF	Under development	3
2SK2704		0.57	13	TO-220F		1
2SK2705		0.38	13	TO-3PF	Under development	
2SK2805		0.3	15	TO-3PF	Under development	3
2SK2706		0.3	18	TO-3PF	Under development	
2SK1177	500	3	2.5	TO-220F	UL approved type available	
2SK1178		1.5	4	TO-220F	UL approved type available	1
2SK3199		5	TO-220F			
2SK1179		0.85	8.5	TO-3PF	UL approved type available	
2SK1180		0.6	10	TO-3PF	UL approved type available	3
2SK3200		1.1	10	TO-220F		1
2SK1181		0.4	13	TO-3PF	UL approved type available	3
2SK2848	600	3.8	2	TO-220F		
2SK2707		1.85	4.5	TO-220F	Under development	1
2SK2708		1.1	7	TO-220F		
2SK2709		0.85	8.5	TO-3PF	Under development	
2SK2710		0.55	12	TO-3PF	Under development	3
2SK2943	900	5	3	TO-220F		
2SK2945		3	5	TO-220F		
2SJ424	-60	0.5	5	TO-220F	Under development	
2SJ425		0.28	8	TO-220F		1

External Dimensions

• No. 1 (TO-220F)

• No. 2 (TO-220S)

• No. 3 (TO-3PF)

• No. 4 (TO-3P)


(unit: mm)

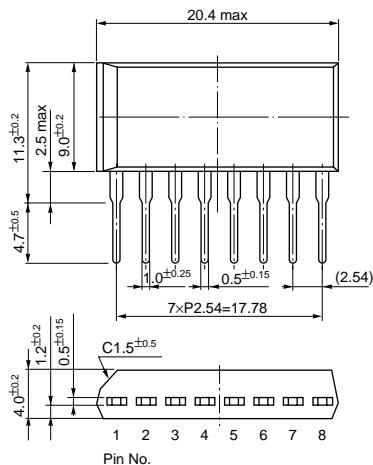
2-3-1 For Sink Drive

■General Purpose

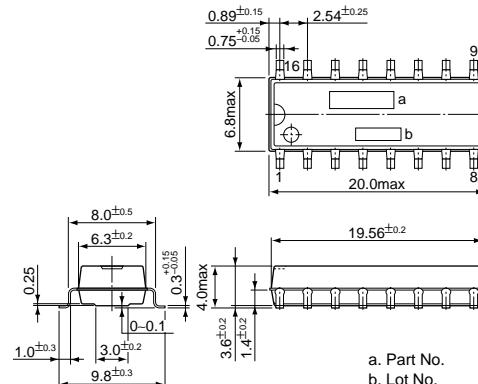
Part No.	Number of Circuits	V _{CEO} (V) V _{DSS} (V)	I _C (A) I _D (A)	Chip	h _{FE} (min)	R _{DSON} max(Ω)	Package	Fig. No.
STA312A	3	60	3	Bipolar	300		SIP8Pin	1
STA303A		100	4	Bipolar	1000		SIP8Pin	
STA351A			5	Bipolar	1000		SIP8Pin	
STA513A		250	3.5	MOS		0.9	SIP10Pin	3
STA517A		305	3	MOS		1.8	SIP10Pin	
SDC01	4	50	2	Bipolar	1000		SMD16Pin	2
STA412A		60	3	Bipolar	300		SIP10Pin	3
STA504A			4	MOS		0.45	SIP10Pin	
STA501A			5	MOS		0.2	SIP10Pin	
STA473A		100	2	Bipolar	2000		SIP10Pin	2
STA506A				MOS		0.8	SIP10Pin	
SDK04				MOS		0.8	SMD16Pin	
SMA4030			3	Bipolar	2000		SIP12Pin	4
STA505A				MOS		0.6	SIP10Pin	3
STA403A				Bipolar	1000		SIP10Pin	
SLA4030			4	Bipolar	2000		SIP12Pin with fin	5
SMA5101				MOS		0.6	SIP12Pin	4
SLA5090				MOS		0.6	SIP12Pin with fin	
SLA5001				5	MOS	0.3	SIP12Pin with fin	
SLA5037			10	MOS		0.08	SIP12Pin with fin	
SLA4060	5	120	5	Bipolar	2000		SIP12Pin with fin	5
SLA5047		150	10	MOS		0.085	SIP12Pin with fin	
SLA5052				MOS		0.115	SIP12Pin with fin	
SLA5077				MOS		0.2	SIP12Pin with fin	
SLA5089		200	10	MOS		0.12	SIP12Pin with fin	
STA404A		200	3	Bipolar	1000		SIP10Pin	3
SLA5041			10	MOS		0.175	SIP12Pin with fin	5
SLA5044			10	MOS		0.25	SIP12Pin with fin	
SLA5029	6	60	4	MOS		0.45	SIP12Pin with fin	5
SLA5011			5	MOS		0.22	SIP12Pin with fin	
SLA5085				MOS		0.22	SIP12Pin with fin	
SLA5021		100	5	MOS		0.19	SIP12Pin with fin	6
SLA5042				MOS		0.185	SIP12Pin with fin	
SLA5055		150	$\pm 5/\pm 7$	MOS		0.44/0.2	SIP12Pin with fin	6
SLA5088				MOS		0.44/0.2	SIP15Pin with fin	
SLA5058			± 7	MOS		0.2	SIP12Pin with fin	5
SLA5081			$\pm 7/\pm 7$	MOS		0.105/0.2	SIP15Pin with fin	6
SLA5046			200	7	MOS	0.35	SIP12Pin with fin	5
SLA5094					MOS	0.35	SIP12Pin with fin	
SLA5049			250	7	MOS	0.5	SIP12Pin with fin	
SLA5054	6	150	$\pm 7/\pm 5/\pm 7$	MOS		0.105/0.44/0.2	SIP15Pin with fin	6
SLA5070			$\pm 7/\pm 7$	MOS		0.105/0.2	SIP15Pin with fin	
SLA5057		200	$\pm 7/\pm 7$	MOS		0.175/0.35	SIP15Pin with fin	

External Dimensions

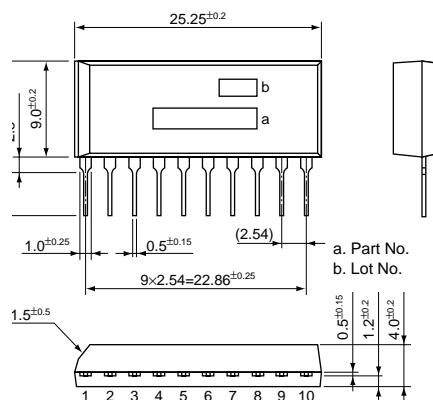
• No. 1 (STA 8 pin)



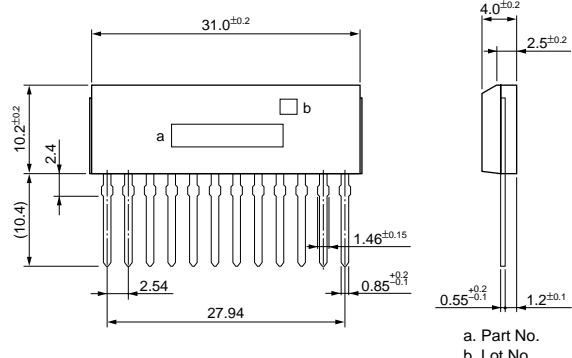
• No. 2 (SD)



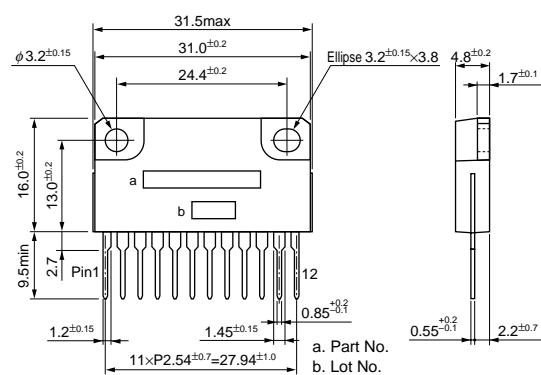
• No. 3 (STA 10 pin)



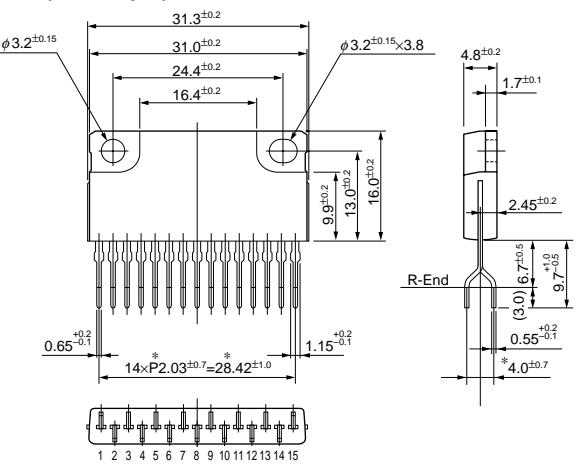
• No. 4 (SMA)



• No. 5 (SLA 12 pin)



• No. 6 (SLA 15 pin)



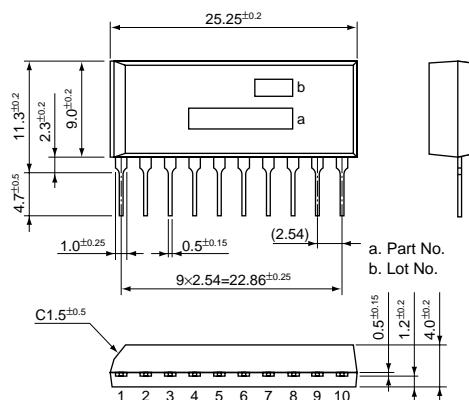
(unit: mm)

■ With Built-in Avalanche Diode between Collector and Base

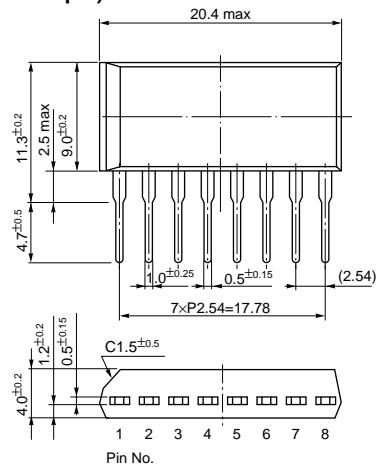
Part No.	Number of Circuits	$V_{CEO}(V)$ / $V_{DSS}(V)$	$I_C(A)$ / $I_D(A)$	Chip	h_{FE} (min)	$R_{DS(ON)}$ max(Ω)	Package	Fig. No.	
STA460C	2	60±10	6	Bipolar	700		SIP10Pin	1	
STA371A	3		2	Bipolar	2000		SIP8Pin		
STA301A			4	Bipolar	1000		SIP8Pin	2	
SDC06	4	30~45	2	Bipolar	400		SMD16Pin	3	
STA413A		35±5	3	Bipolar	500		SIP10Pin		
STA481A		60±10	1	Bipolar	2000		SIP10Pin	1	
SDC03			1.5	Bipolar	2000		SMD16Pin	3	
STA471A			2	Bipolar	2000		SIP10Pin		
STA401A			4	Bipolar	1000		SIP10Pin	1	
SLA4010			6	Bipolar	2000		SIP12Pin with fin	4	
STA406A		65±15	4	Bipolar	2000		SIP10Pin		
STA435A			1	Bipolar	1000		SIP10Pin	1	
STA485A		100±15	1.5	Bipolar	2000		SIP10Pin		
SDC04			2	Bipolar	2000		SMD16Pin	3	
STA475A							SIP10Pin	1	

External Dimensions

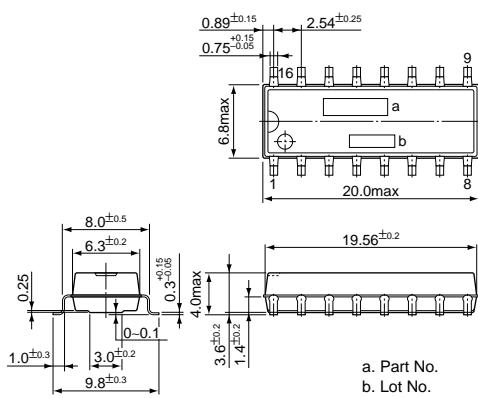
• No. 1 (STA 10 pin)



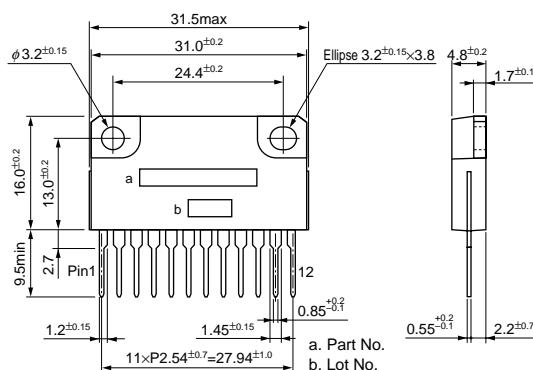
• No. 2 (STA 8 pin)



• No. 3 (SD)



• No. 4 (SLA 12 pin)



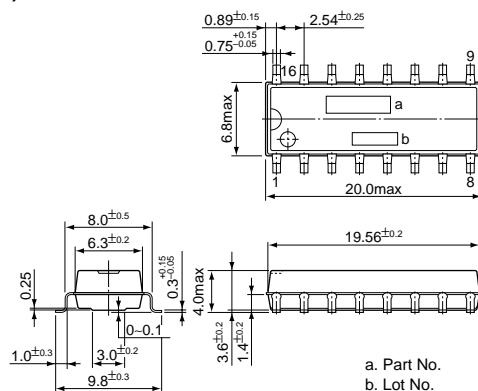
(unit: mm)

With Built-in Flywheel Diode

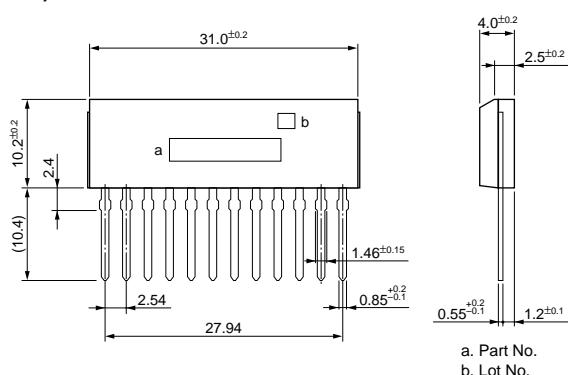
Part No.	Number of Circuits	$V_{CEO}(V)$ / $V_{DSS}(V)$	$I_C(A)$ / $I_B(A)$	Chip	h_{FE} (min)	$R_{DS(ON)}$ max(Ω)	Package	Fig. No.
SDK02	4	60	2	MOS		0.24	SMD16Pin	1
SMA5114			3	MOS		0.25	SIP12Pin	2
SLA5031			5	MOS		0.3	SIP12Pin with fin	3
SDH02		100	1.5	Bipolar	2000		SMD16Pin	1
SMA4033			2	Bipolar	2000		SIP12Pin	2
SMA4032			3	Bipolar	2000		SIP12Pin	2
SLA5040				MOS		0.6	SIP12Pin with fin	3
SMA5102		120	4	MOS		0.6	SIP12Pin	2
SMA5106				MOS		0.55	SIP12Pin	2
SLA5002			5	MOS		0.3	SIP12Pin with fin	3
SMA5105				MOS		0.3	SIP12Pin	2
SLA4031		4		Bipolar	2000		SIP12Pin with fin	3
SMA4061		5		Bipolar	2000		SIP12Pin with fin	3
SLA4041		3		Bipolar	1000		SIP12Pin with fin	3
SLA5003		5		MOS		0.9	SIP12Pin with fin	3
SMA4036	6	120	2	Bipolar	2000		SIP15Pin	4

External Dimensions

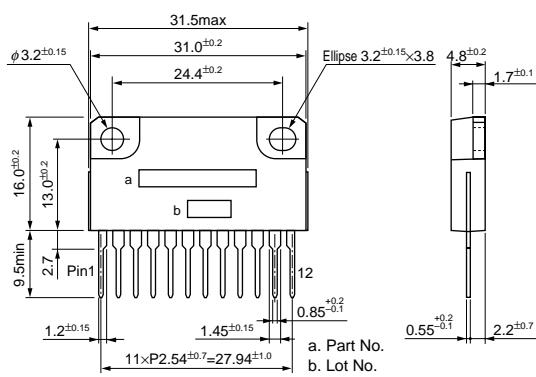
• No. 1 (SD)



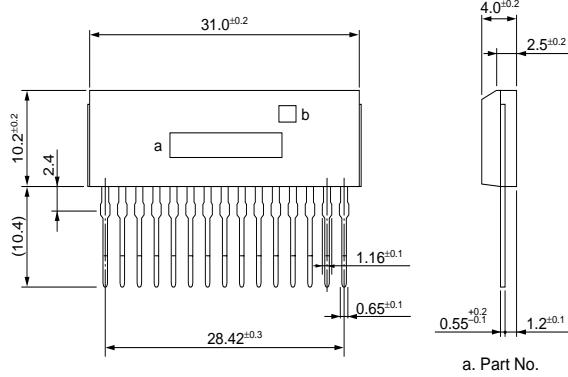
• No. 2 (SMA)



• No. 3 (SLA 12 pin)



• No. 4 (SMA 15 pin)



(unit: mm)

2-3-2 For Source Drive

General Purpose

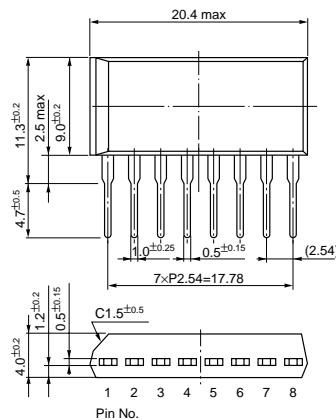
Part No.	Number of Circuits	$V_{CEO(V)}$ / $V_{DSS(V)}$	$I_C(A)$ / $I_D(A)$	Chip	hFE (min)	$R_{DS(ON)}$ max(Ω)	Package	Fig. No.
STA322A	3	-50	-3	Bipolar	100		SIP8Pin	1
STA302A			-4	Bipolar	1000		SIP8Pin	
STA352A			-5	Bipolar	1000		SIP8Pin	
STA308A			-4	Bipolar	2000		SIP8Pin	
STA309A			-2.5	Bipolar	1000		SIP8Pin	
STA402A	4	-50	-4	Bipolar	1000		SIP10Pin	2
SDA01			-1.5	Bipolar	2000		SMD16Pin	3
STA472A			-2	Bipolar	2000		SIP10Pin	2
STA421A			-3	Bipolar	40		SIP10Pin	
SMA4020			-4	Bipolar	2000		SIP12Pin	4
SLA5024			MOS		0.55		SIP12Pin with fin	5
SLA5004			-5	MOS		0.3	SIP12Pin with fin	
SLA4070			-5	Bipolar	1000		SIP12Pin with fin	
SLA5005			-5	MOS		0.7	SIP12Pin with fin	
STA408A			-4	Bipolar	2000		SIP10Pin	2
SLA5015	5	-60	-4	MOS		0.55	SIP12Pin with fin	2
SLA5012			-5	MOS		0.3	SIP12Pin with fin	
SLA5086			-5	MOS		0.22	SIP12Pin with fin	5

With Built-in Flywheel Diode

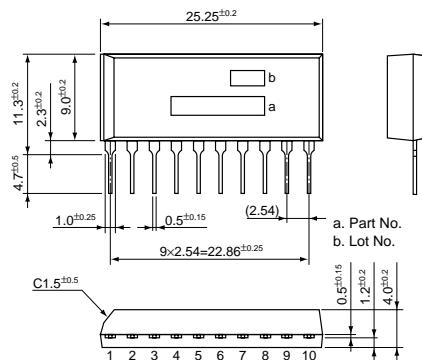
Part No.	Number of Circuits	$V_{CEO(V)}$ / $V_{DSS(V)}$	$I_C(A)$ / $I_D(A)$	Chip	hFE (min)	$R_{DS(ON)}$ max(Ω)	Package	Fig. No.
SMA4021	4	-60	-3	Bipolar	2000		SIP12Pin	4
SLA4071			-5	Bipolar	2000		SIP12Pin with fin	5
SLA5006			MOS		0.7		SIP12Pin with fin	

External Dimensions

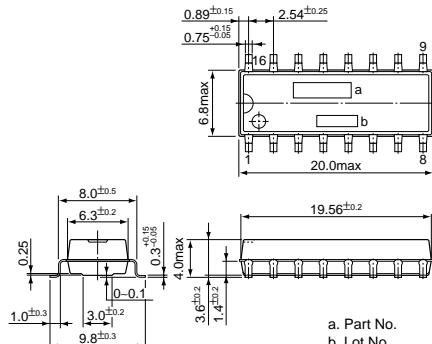
• No. 1 (STA 8 pin)



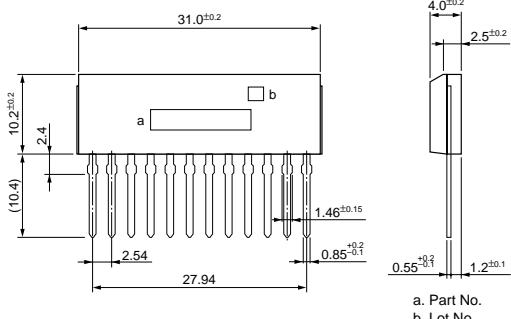
• No. 2 (STA 10 pin)



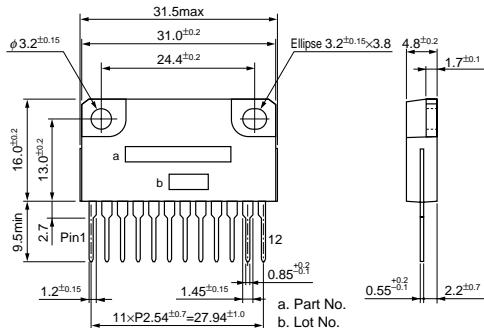
• No. 3 (SD)



• No. 4 (SMA)



• No. 5 (SLA 12 pin)



(unit: mm)

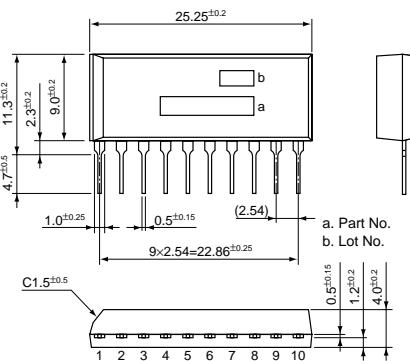
2-3-3 For Motor Drive

H-Bridge

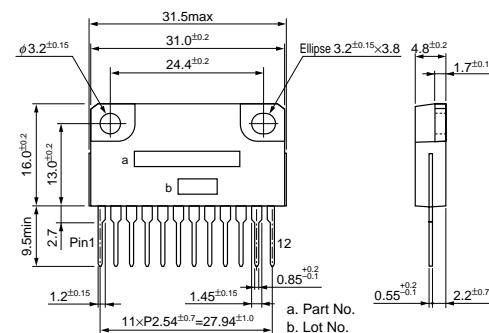
Part No.	Number of Circuits	$V_{CEO}(V)$ / $V_{DSS}(V)$	$I_C(A)$ / $I_D(A)$	Chip	hFE (min)	$R_{DS(ON)}$ max(Ω)	Package	Fig. No.
STA458C	4	± 30	± 5	Bipolar	40		SIP10Pin	1
STA474A		± 60	± 2	Bipolar	2000		SIP10Pin	
STA431A			± 3	Bipolar	40		SIP10Pin	
STA434A				Bipolar	1000		SIP10Pin	
STA457C			± 4	Bipolar	2000		SIP10Pin	
SLA4310				Bipolar	80		SIP12Pin with fin	2
SLA4340				Bipolar	2000		SIP12Pin with fin	
SLA5007			$+5/-4$	MOS		0.22/0.55	SIP12Pin with fin	
SLA5018				MOS		0.22/0.55	SIP12Pin with fin	
SMA5103				MOS		0.22/0.55	SIP12Pin	3
SLA8001			± 12	Bipolar	50		SIP12Pin with fin	2
SDH03		$+100/-60$	± 1.5	Bipolar	2000		SMD16Pin	4
SLA5008			$+4/-3$	MOS		0.6/1.3	SIP12Pin with fin	2
SLA4390				Bipolar	2000		SIP12Pin with fin	
SLA4391			± 5	Bipolar	1000		SIP12Pin with fin	
SLA5013						0.3/0.7	SIP12Pin with fin	

External Dimensions

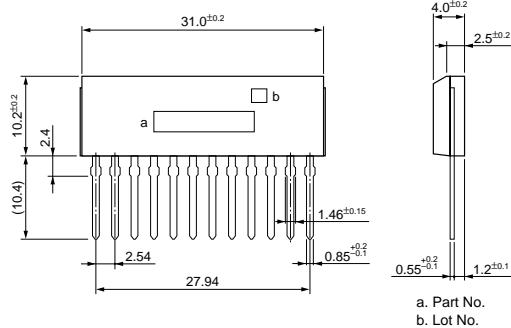
• No. 1 (STA 10 pin)



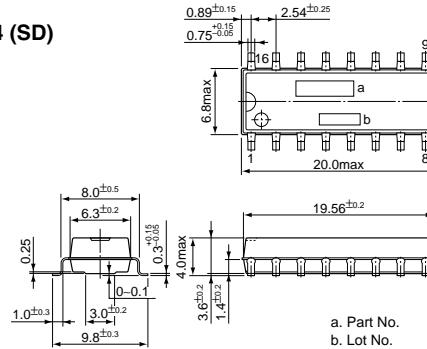
• No. 2 (SLA 12 pin)



• No. 3 (SMA)



• No. 4 (SD)



(unit: mm)

For 3-Phase Motor Drive

Part No.	Number of Circuits	V _{CEO(V)} V _{DSS(V)}	I _{C(A)} I _{D(A)}	Chip	h _{FE} (min)	R _{DSON} max(Ω)	Package	Fig. No.
SDC07	3	60	4	Bipolar	2000		SMD16Pin	1
SLA5080			10	MOS		0.14	SIP12Pin with fin	2
STA303A		100	4	Bipolar	1000		SIP8Pin	3
STA351A			5	Bipolar	1000		SIP8Pin	
STA513A		250	3.5	MOS		0.9	SIP10Pin	
STA517A		305	3	MOS		1.8	SIP10Pin	4
STA304A		550	1	Bipolar	200		SIP8Pin	
STA302A		-50	-4	Bipolar	1000		SIP8Pin	3
SDA05		-60	-4	Bipolar	2000		SMD16Pin	1
SLA5079		-60	-10	MOS		0.14	SIP12Pin with fin	2
STA352A		-100	-5	Bipolar	1000		SIP8Pin	
STA309A		-250	-2.5	Bipolar	1000		SIP8Pin	3
STA305A		-550	-1	Bipolar	200		SIP8Pin	
SMA6014	6	±60	±2	Bipolar	1500/2000		SIP12Pin	5
SMA6080			±2	Bipolar	2000		SIP12Pin	
SLA5059				MOS		0.55	SIP12Pin with fin	2
SMA6010			±4	Bipolar	2000		SIP12Pin	5
SLA6012				Bipolar	2000		SIP12Pin with fin	2
SMA5127				MOS		0.55	SIP12Pin	5
SLA5009			+5/-4	MOS		0.22/0.55	SIP12Pin with fin	2
SLA5017				MOS		0.22/0.55	SIP12Pin with fin	
SMA5104				MOS		0.22/0.55	SIP12Pin	4
SLA5060		±10		MOS		0.22	SIP12Pin with fin	
SLA5022			±6	Bipolar	2000	0.22	SIP12Pin with fin	
SLA6023				Bipolar	2000		SIP12Pin with fin	
SLA6024			±8	Bipolar	2000		SIP12Pin with fin	2
SLA5061				MOS		0.14	SIP12Pin with fin	
SLA5064				MOS		0.14	SIP12Pin with fin	
SLA6026				Bipolar	2000		SIP12Pin with fin	
SMA5125				MOS		0.14	SIP12Pin	5
SLA6022	6	±80	±5	Bipolar	2000		SIP12Pin with fin	
SLA5010		±100	+4/-3	MOS		0.6/1.3	SIP12Pin with fin	2
SLA6020			±5	Bipolar	2000		SIP12Pin with fin	
SLA5023			±6	Bipolar	2000	0.55	SIP12Pin with fin	
SLA5072		250		MOS		0.5	SIP15Pin with fin	6
SMA5112			7	MOS		0.5	SIP12Pin	5
SMA5117				MOS		0.25	SIP12Pin	
SLA5075		500	±5	MOS		1.4	SIP15Pin with fin	6
SMA5118				MOS		1.4	SIP12Pin	5

For 5-Phase Motor Drive

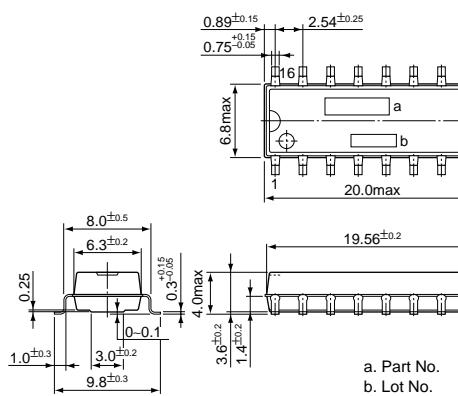
Part No.	Number of Circuits	V _{CEO(V)} V _{DSS(V)}	I _{C(A)} I _{D(A)}	Chip	h _{FE} (min)	R _{DSON} max(Ω)	Package	Fig. No.
SLA5074	4	60	5	MOS		0.3	SIP15Pin with fin	5
SLA5065			7	MOS		0.1	SIP15Pin with fin	
SLA5073		60	5	MOS		0.3	SIP15Pin with fin	
SLA5068			7	MOS		0.1	SIP15Pin with fin	

For Stepper Motor Dual Power Supply Drive

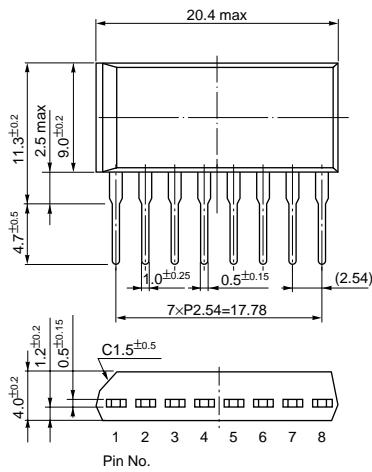
Part No.	Number of Circuits	V _{CEO(V)} V _{DSS(V)}	I _{C(A)} I _{D(A)}	Chip	h _{FE} (min)	R _{DSON} max(Ω)	Package	Fig. No.
SMA6512	5	60±10/-60	1.5/-3	Bipolar	2000		SIP12Pin	4
SMA6511		100±15/-60	1.5/-3	Bipolar	2000		SIP12Pin	

External Dimensions

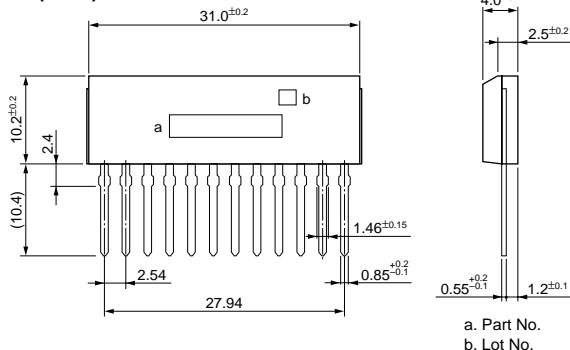
• No. 1 (SD)



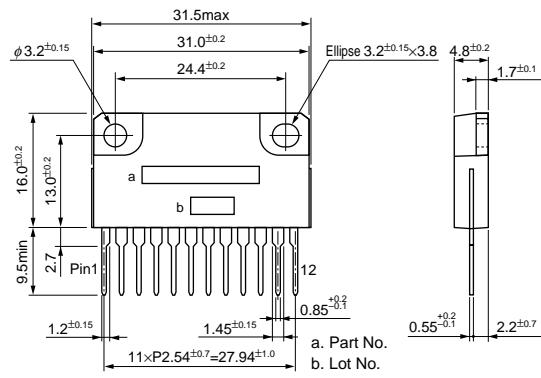
• No. 3 (STA 8 pin)



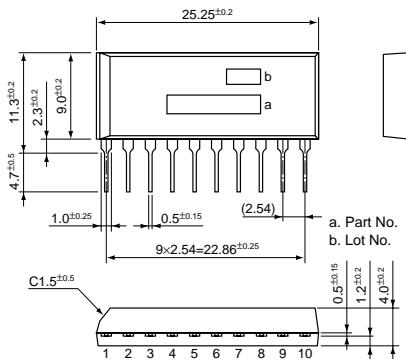
• No. 5 (SMA)



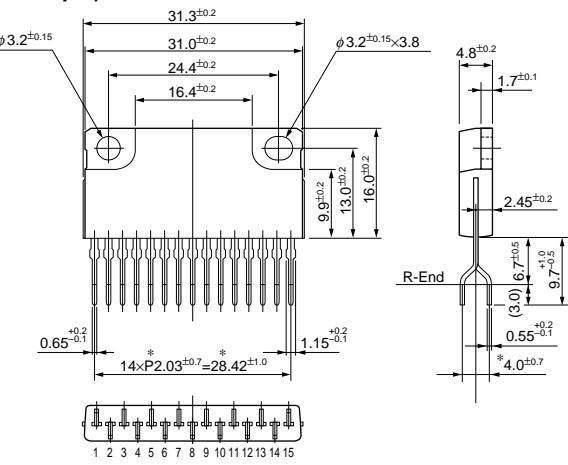
• No. 2 (SLA 12 pin)



• No. 4 (STA 10 pin)



• No. 6 (SLA 15 pin)



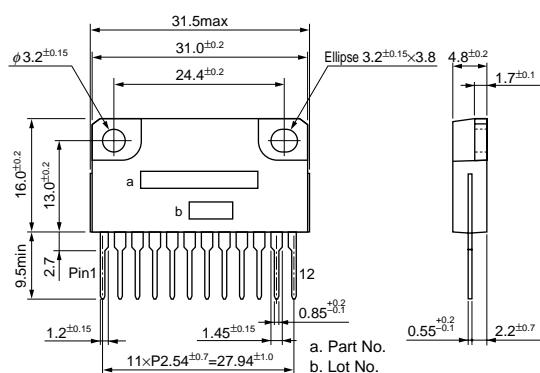
(unit: mm)

2-3-4 MOS Array for "S" shape Correction Switch of CRT Display

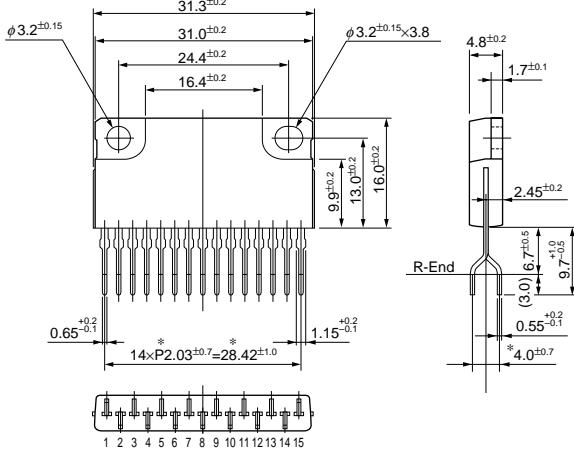
Part No.	Number of Circuits	V _{DSS} (V)	I _D (A)	Chip	R _{DS(ON)} max(mΩ)	Package	Fig. No.
SLA5037	4	100	10	MOS	80	SIP12Pin with fin	1
SLA5047			10	MOS	85	SIP12Pin with fin	
SLA5052			10	MOS	115	SIP12Pin with fin	
SLA5077		200	10	MOS	200	SIP12Pin with fin	
SLA5041			10	MOS	175	SIP12Pin with fin	
SLA5089			10	MOS	120	SIP12Pin with fin	
SLA5044	5	100	10	MOS	250	SIP12Pin with fin	1
SLA5042			5	MOS	185	SIP12Pin with fin	
SLA5021			5	MOS	190	SIP12Pin with fin	
SLA5058			7	MOS	200	SIP12Pin with fin	
SLA5081			7	MOS	105/200	SIP15Pin with fin	2
SLA5055		150	5/7	MOS	200/440	SIP12Pin with fin	1
SLA5088			5/7	MOS	200/440	SIP15Pin with fin	2
SLA5046			7	MOS	350	SIP12Pin with fin	1
SLA5094			7	MOS	350	SIP12Pin with fin	
SLA5049			7	MOS	500	SIP12Pin with fin	
SLA5070	6	150	7	MOS	105/200	SIP15Pin with fin	2
SLA5054			7/5/7	MOS	105/200/440	SIP15Pin with fin	
SLA5057		200	7	MOS	175/350	SIP15Pin with fin	2

External Dimensions

• No. 1 (SLA 12 pin)



• No. 2 (SLA 15 pin)



(unit: mm)

3

Thyristors

3-1 Thyristors	34
3-1-1 Thyristors	34
3-1-2 3-Terminal Thyristor with built-in Reverse Diode for HID Lamp Ignition	35
3-1-3 Thyristors with Built-in Avalanche Diode	35
3-2 Triacs	36
3-3 PNPN Switches	38

3-1-1 Thyristors

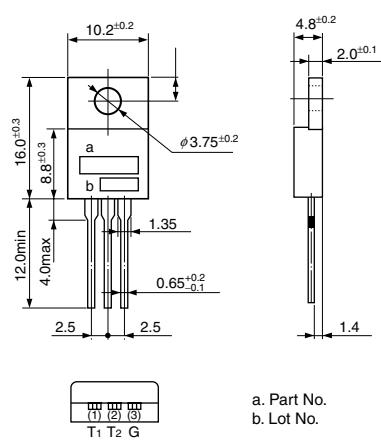
Part No.	V _{DRM} (V)	I _T (A) (A)	I _{GT} (max) (mA)	Package	Fig. No.
TF321M-A	200	3	0.1	TO-220	1
TF321M			10	TO-220	
TF321S			15	TO-220F	2
TF521M		5	15	TO-220	1
TF521S				TO-220F	2
TF821M		8	15	TO-220	1
TF821S				TO-220F	2
TF341S		3	15	TO-220F	
TF341M-A			0.1	TO-220	1
TF341M			10	TO-220	
TF541S-A		5	0.2	TO-220F	2
TF541M			15	TO-220	1
* TF541S				TO-220F	2
TF841M		8	15	TO-220	1
* TF841S				TO-220F	2

Part No.	V _{DRM} (V)	I _T (A) (A)	I _{GT} (max) (mA)	Package	Fig. No.
TF361M-A	600	3	0.1	TO-220	1
TF361M			10	TO-220	
TF361S			15	TO-220F	2
TF561S-A		5	0.2	TO-220F	
TF561M			15	TO-220	1
* TF561S		5x4 circuits		TO-220F	2
SLA0201			10	SIP12Pin	3
TF861M		8	15	TO-220	1
* TF861S				TO-220F	2

* UL recognized products are available.

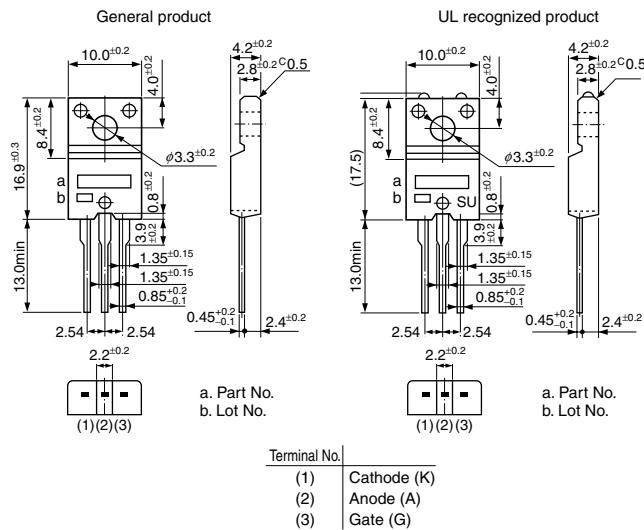
External Dimensions

• No. 1



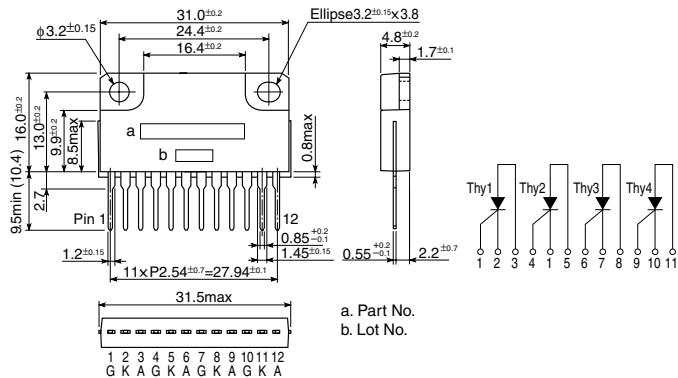
a. Part No.
b. Lot No.

• No. 2



Terminal No.	
(1)	Cathode (K)
(2)	Anode (A)
(3)	Gate (G)

• No. 3



a. Part No.
b. Lot No.

(unit: mm)

3-1-2 3-Terminal Thyristor with built-in Reverse Diode for HID Lamp Ignition

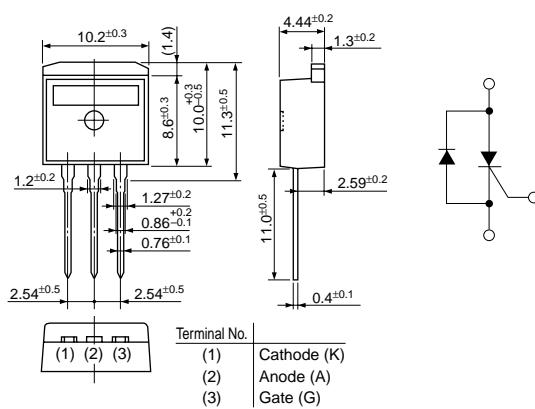
Part No.	V_{DRM} (V)	I_{TRM} (A)	di/dt (A/ μ s)	Package	Fig. No.
TFC561D	600	430	1200	TO-220S	1

3-1-3 Thyristors with Built-in Avalanche Diode

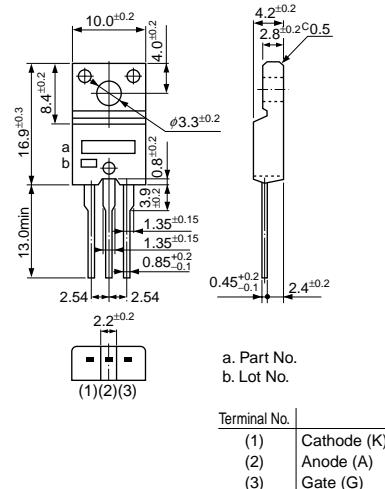
Part No.	V_{BO} (V)	V_{DRM} (V)	$I_t(AV)$ (A)	Package	Fig. No.
TFD312S-C	30±3	20	3	TO-220F	2
TFD312S-F	55±5	35			
TFD312S-G	65±5	45			
TFD312S-J	100±10	80			
TFD312S-K	125±10	100			
TFD312S-L	150±10	120			
TFD312S-M	175±12	145			
TFD312S-N	200±15	170			
TFD312S-O	225±15	190			

External Dimensions

• No. 1



• No. 2

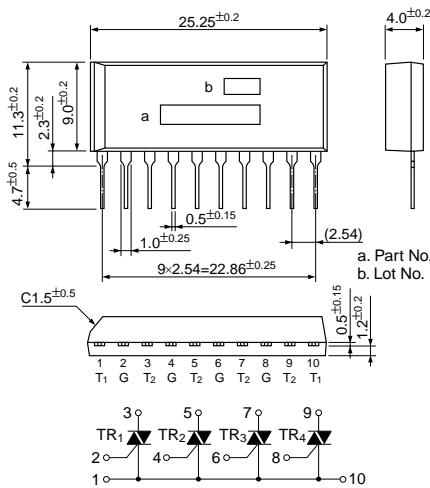
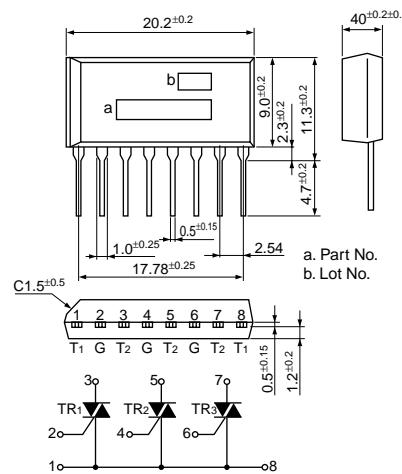
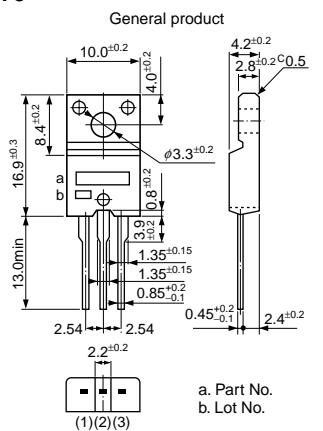


(unit: mm)

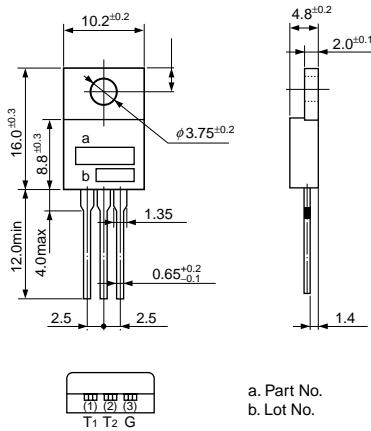
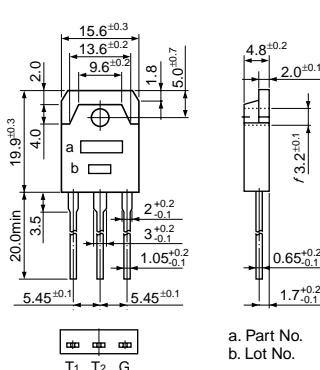
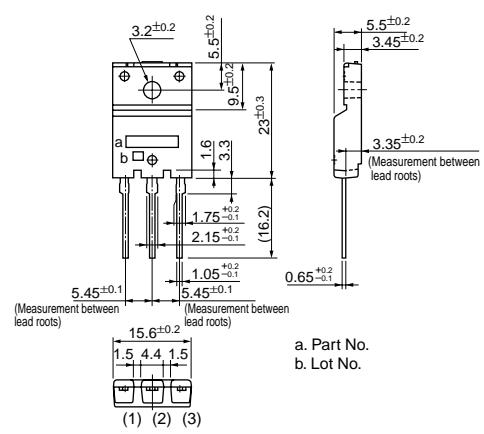
Part No.	V _{DRM} (V)	I _{T(AV)} (A)	I _{GTR(max)} (mA)	Package	Remarks	Fig. No.
STA221A	400	1.0 × 4 circuits	3	SIP10Pin	Array	1
STA203A		1.2 × 3 circuits	3	SIP8Pin	Array	2
* TM341S-R		3	12	TO-220F	For R load	3
TM341M-L			20	TO-220	For L load	4
* TM341S-L				TO-220F	For L load	
* TM541S-R			12	TO-220F	For R load	3
TM541M-L		5	20	TO-220	For L load	4
* TM541S-L				TO-220F	For L load	3
TM841M-L			8	TO-220	For L load	4
* TM841S-L			30	TO-220F	For L load	
* TM1041S-R		10	7	TO-220F	For R load	
* TM1041S-L			30	TO-220F	For L load	
* TM1241S-R		12	8	TO-220F	For R load	3
* TM1241S-L			30	TO-220F	For L load	
* TM1641S-L		16		TO-220F	For L load	
TM1641P-L(L)			30	TO-3P	For L load	5
* TM1641B-L				TO-3PF	For L load	
* TM2541B-L		25	30	TO-3PF	For L load	6
* TM361S-R	600	3	12	TO-220F	For R load	3
TM361M-L			20	TO-220	For L load	4
* TM361S-L				TO-220F	For L load	
* TM561S-R		5	12	TO-220F	For R load	3
TM561M-L			20	TO-220	For L load	4
* TM561S-L				TO-220F	For L load	3
TM861M-L		8	30	TO-220	For L load	4
* TM861S-L				TO-220F	For L load	
* TM1061S-R			7	TO-220F	For R load	
* TM1061S-L		10	30	TO-220F	For L load	
* TM1261S-R				TO-220F	For R load	3
* TM1261S-L		12	8	TO-220F	For L load	
* TM1661S-L			30	TO-220F	For L load	
TM1661P-L(L)		16		TO-220F	For L load	
* TM1661B-L			30	TO-3P	For L load	5
* TM2561B-L				TO-3PF	For L load	
TM583S-L	800	5	20	TO-220F	For L load	
TM883S-L		8	30	TO-220F	For L load	3

*UL recognized products are available.

External Dimensions

• No. 1

• No. 2

• No. 3


Terminal No.	Triacs
(1)	Terminal 1 (T ₁)
(2)	Terminal 2 (T ₂)
(3)	Gate (G)

• No. 4

• No. 5

• No. 6


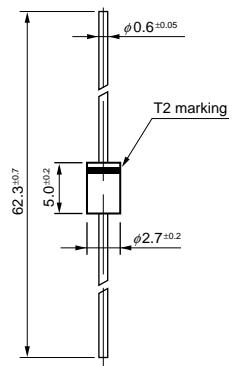
- (1). Terminal 1 (T₁)
- (2). Terminal 2 (T₂)
- (3). Gate (G)

(unit: mm)

Part No.	V _{BO} (V)	V _{DRM} (V)	I _T (RMS) (A)	Package	Fig. No.
ET013	120–138	90	0.6	Axial	1
ET015	142–157	115			
ET020	190–210	170			

External Dimensions

• No. 1



(unit: mm)

4

Diodes

4-1 Rectifier Diodes	40
4-1-1 1 Chip	40
4-1-2 2 Chip	41
4-1-3 Bridge	41
4-2 Fast Recovery Rectifier Diodes	42
4-2-1 1 Chip	42
4-2-2 2 Chip	44
4-3 Ultra-Fast Recovery Rectifier Diodes	46
4-3-1 1 Chip	46
4-3-2 2 Chip	48
4-3-3 Bridge	49
4-4 Schottky Barrier Diodes	50
4-4-1 1 Chip	50
4-4-2 2 Chip	52
4-4-3 Bridge	53
4-5 High-Voltage Rectifier Diodes	54
4-6 Damper Diodes	55
4-6-1 Damper Diodes	55
4-6-2 DM Damper Diodes	56
4-7 Avalanche Diodes with Built-in Thyristor	57
4-8 Power Zener Diodes	58
4-9 Silicon Varistors	59

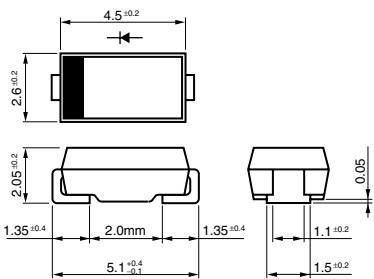
4-1-1 1 Chip

Part No.	V _{RM} (V)	I _F (A)	I _{FSM} (A)	Package	Fig. No.
EM 1Y	100	1.0	45	Axial(E1)	4
RM 4Y		3.0	200	Axial(R4)	8
SFPM-52	200	0.9	30	Surface mount (SFP)	1
AM01Z		35	Axial(A0)	2	
SFPM-62	400	45	Surface mount (SFP)	1	
EM01Z		45	Axial(E0)	3	
EM 1Z	200	45	Axial(E1)	4	
RM 1Z		50	Axial(R1)	5	
RO 2Z	1.2	80	Axial(R2)	6	
RM 2Z		100	Axial(R1)	5	
RM 10Z	1.5	120	Axial(R1)	5	
RM 4Z		3.0	200	Axial(R4)	8
SFPM-54	1.0	0.9	30	Surface mount (SFP)	1
AM01		35	Axial(A0)	2	
SFPM-64	1.0	45	Surface mount (SFP)	1	
SFPM-74		50	Axial(E0)	3	
EM01	1.2	45	Axial(E1)	4	
EM 1		50	Axial(R1)	5	
RM 1	1.2	80	Axial(E1)	4	
EM 2		80	Axial(R2)	6	
RO 2	1.2	100	Axial(R1)	5	
RM 2		150	Axial(R1)	5	
RM 10	2.5	150	Axial(R3)	7	
RM 3		3.0	200	Axial(R4)	8
RM 4		3.0	200	Axial(R4)	8

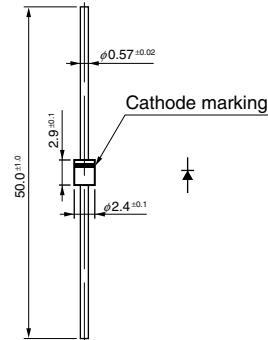
Part No.	V _{RM} (V)	I _F (A)	I _{FSM} (A)	Package	Fig. No.
AM01A	600	1.0	35	Axial(A0)	2
EM01A			45	Axial(E0)	3
EM 1A			45	Axial(E1)	4
RM 1A			50	Axial(R1)	5
EM 2A	1.2	80	Axial(E1)	4	
RO 2A		80	Axial(R2)	6	
RM 11A		100	Axial(R1)	5	
RM 2A		100	Axial(R2)	6	
RM 10A	800	150	Axial(R1)	5	
RM 3A		2.5	150	Axial(R3)	7
RM 4A		3.0	200	Axial(R4)	8
RM 4AM		3.2	350	Axial(R4)	8
RM 1B	1.0	0.8	40	Axial(R1)	5
EM 1B		1.0	35	Axial(E1)	4
EM 2B		80	Axial(E1)	4	
RO 2B		80	Axial(R2)	6	
RM 11B	1.2	100	Axial(R1)	5	
RM 2B		100	Axial(R2)	6	
RM 10B		150	Axial(R1)	5	
RM 3B		2.5	150	Axial(R3)	7
RM 4B	1000	3.0	150	Axial(R4)	8
RM 1C		0.8	40	Axial(R1)	5
EM 1C		1.0	35	Axial(E1)	4
RO 2C		80	Axial(R2)	6	
RM 11C	1.2	100	Axial(R1)	5	
RM 2C		100	Axial(R2)	6	
RM 3C		2.0	150	Axial(R3)	7
RM 4C		3.0	150	Axial(R4)	8

External Dimensions

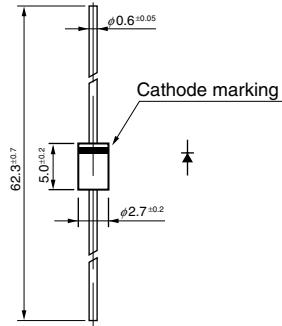
• No. 1 Surface Mount (SFP)



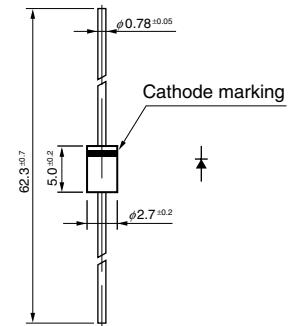
• No. 2 Axial (A0)



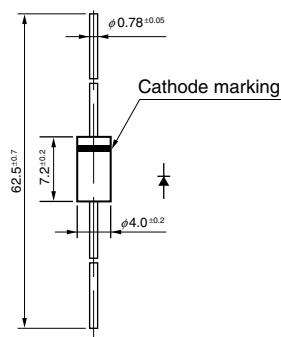
• No. 3 Axial (E0)



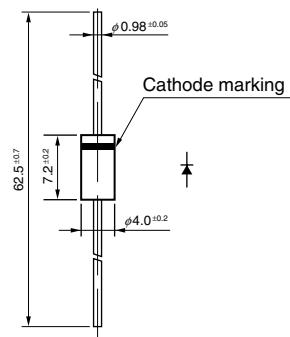
• No. 4 Axial (E1)



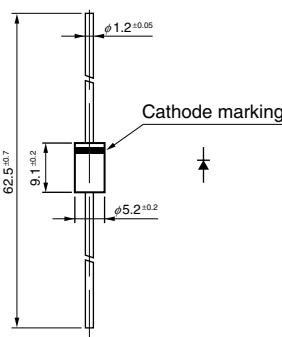
• No. 5 Axial (R1)



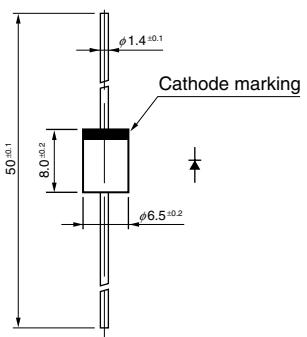
• No. 6 Axial (R2)



• No. 7 Axial (R3)



• No. 8 Axial (R4)



(unit: mm)

4-1-2 2 Chip

Part No.	V _{RM} (V)	I _F (A)	I _{FSM} (A)	Package	Fig. No.
FMM-31S, R	100	20	120	FM80	2
FMM-22S, R	200	10	100	TO-220F	1
FMM-32S, R		20	120	FM80	2
FMM-24S, R	400	10	100	TO-220F	1
FMM-34S, R		20	120	FM80	2
FMM-26S, R	600	10	100	TO-220F	1
FMM-36S, R		20	120	FM80	2

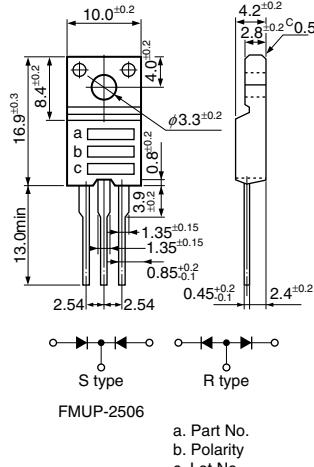
4-1-3 Bridge

Part No.	V _{RM} (V)	I _F (A)	I _{FSM} (A)	Package	Fig. No.
RBV-401	100	4.0	80	RBV-40	3
RBV-601		6.0	120	RBV-60	4
RBV-402		4.0	80	RBV-40	3
RBV-602	200	6.0	120	RBV-60	4
RBV-4102		10	80	RBV-40	3
RBV-404	400	4.0	80	RBV-40	
RBV-604		6.0	150	RBV-60	4
RBV-406		80			
RBV-406H		4.0	120	RBV-40	3
RBV-406M		120			
RBV-606		6.0	120	RBV-60	4
RBV-606H		140			
RBV-4106M	600	10	120	RBV-40	3
RBV-1306		13	80		
RBV-1506		15	200		
RBV-1506S		15	150	RBV-60	4
RBV-1506J		15	150		
RBV-2506		25	350		
RBV-408	800	4.0	100	RBV-40	3
RBV-608		6.0	170	RBV-60	4
RBV-40C	1000	4.0	100	RBV-40	3
RBV-150C*		15	200	RBV-60	4

* Under Development

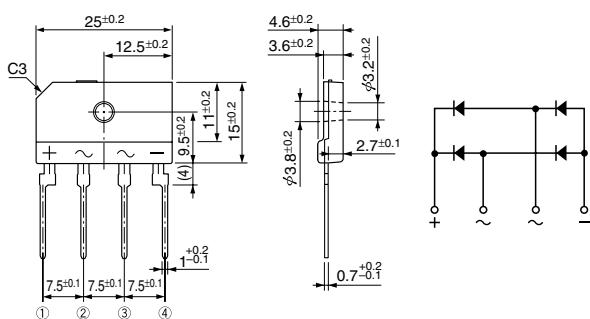
External Dimensions

• No. 1 (TO-220F)

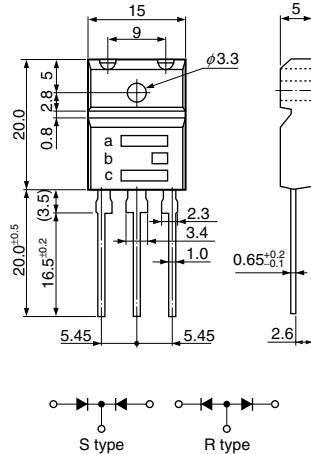


a. Part No.
b. Polarity
c. Lot No.

• No. 3 (RBV-40)

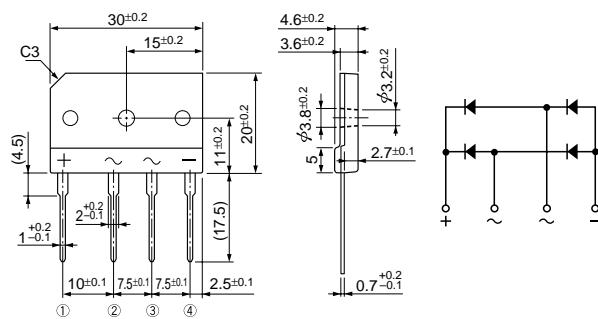


• No. 2 (FM80)



a. Part No.
b. Polarity
c. Lot No.

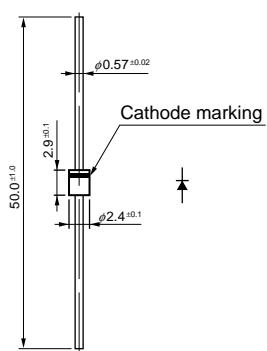
• No. 4 (RBV-60)



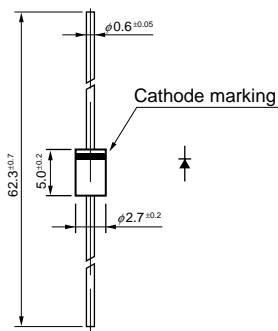
(unit: mm)

External Dimensions

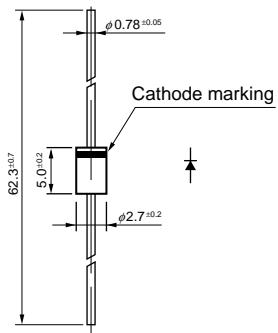
• No. 1 Axial (A0)



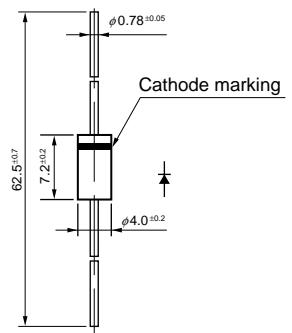
• No. 2 Axial (E0)



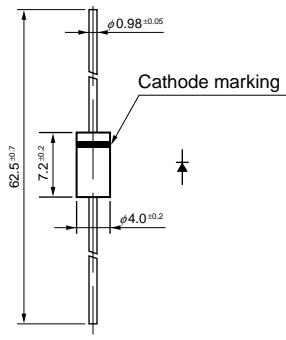
• No. 3 Axial (E1)



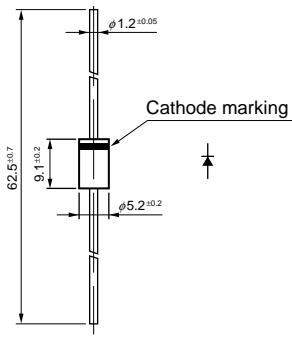
• No. 4 Axial (R1)



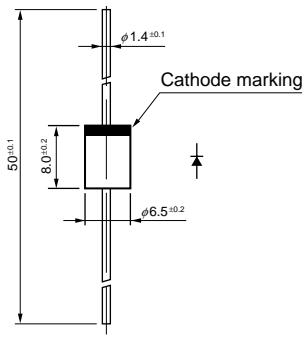
• No. 5 Axial (R2)



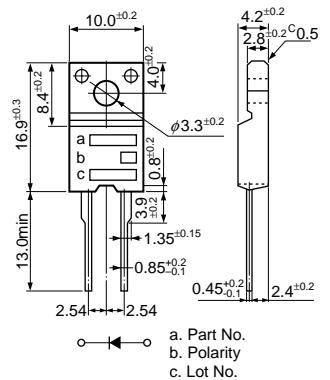
• No. 6 Axial (R3)



• No. 7 Axial (R4)

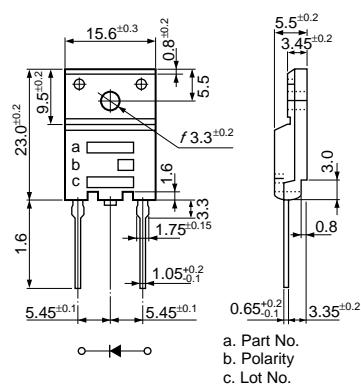


• No. 8 (TO-220F-2 Pin)



a. Part No.
b. Polarity
c. Lot No.

• No. 9 (TO-3PF-2 Pin)



a. Part No.
b. Polarity
c. Lot No.

(unit: mm)

4-2-2 2 Chip

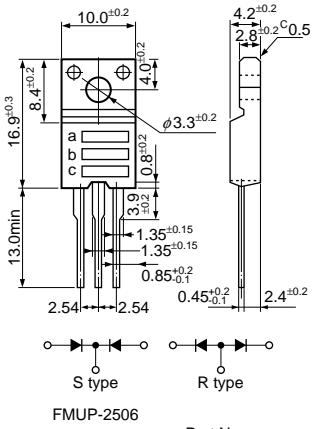
trr① : $I_R=I_F$ 90% Recovery Point
 trr② : $I_R=2 \times I_F$ 75% Recovery Point

Part No.	V _{RM} (V)	I _F (A)	I _{FSM} (A)	trr① (μs)	trr② (μs)	Package	Fig. No.
FMU-21S, R	100	10.0	40	0.4	0.18	TO-220F	1
FMU-12S, R		5.0	30	0.4	0.18	TO-220F	
FMU-22S, R		10.0	40	0.4	0.18	TO-220F	
FMU-32S, R	200	20.0	80	0.4	0.18	FM80	2
FMU-14S, R		5.0	30	0.4	0.18	TO-220F	1
FMU-24S, R		10.0	40	0.4	0.18	TO-220F	1
FMU-34S, R	400	20.0	80	0.4	0.18	FM80	2
FMU-16S, R		5.0	30	0.4	0.18	TO-220F	1
FMUP-2506*		5.0	30	0.4	0.18	TO-220F	1
FMU-26S, R	600	10.0	40	0.4	0.18	TO-220F	1
FMU-36S, R		20.0	80	0.4	0.18	FM80	2

* Under Development

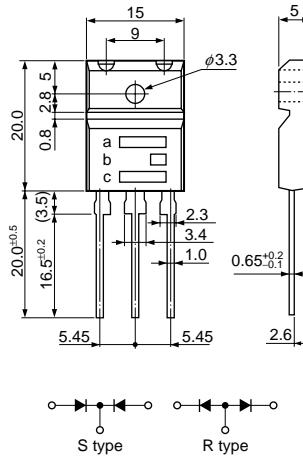
External Dimensions

• No. 1 (TO-220F)



a. Part No.
b. Polarity
c. Lot No.

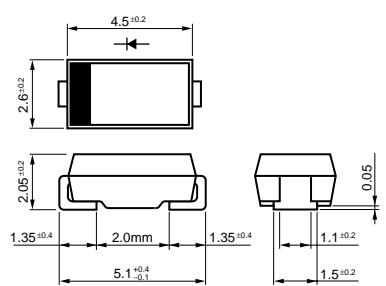
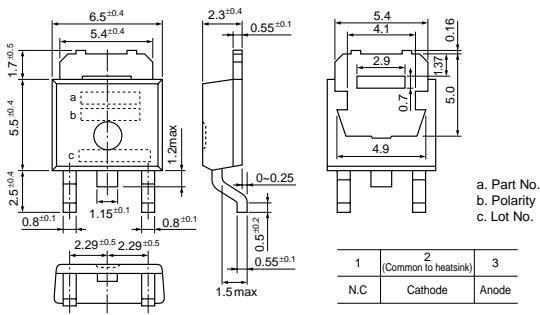
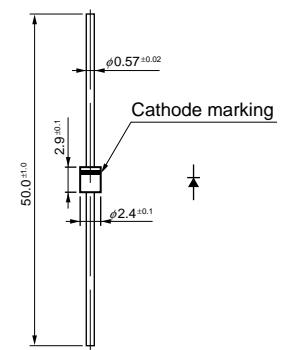
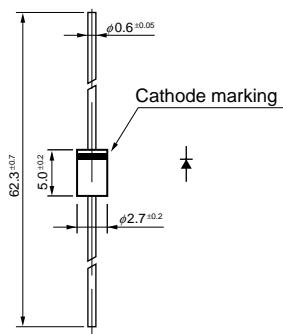
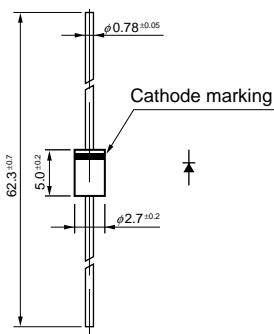
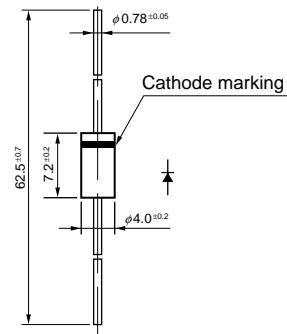
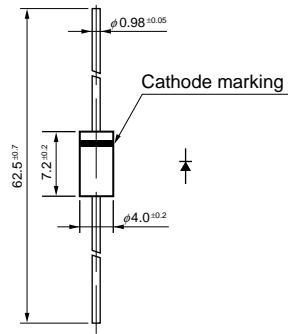
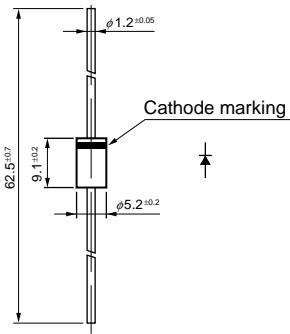
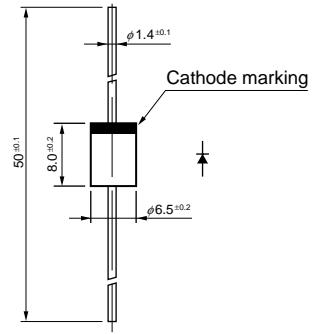
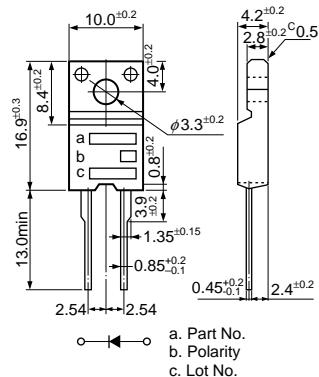
• No. 2 (FM80)



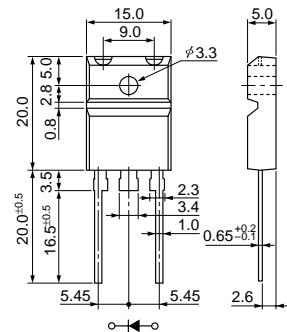
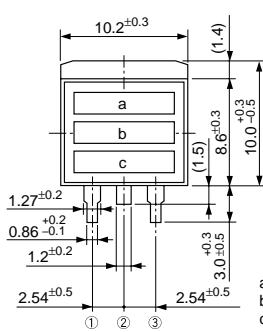
a. Part No.
b. Polarity
c. Lot No.

(unit: mm)

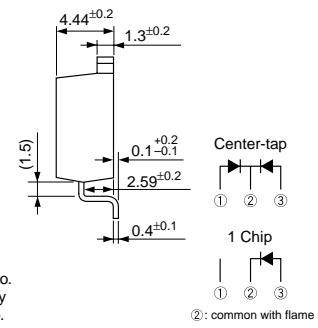
External Dimensions

• No. 1 Surface Mount (SFP)

• No. 2 Surface Mount (D pack)

• No. 3 Axial (A0)

• No. 4 Axial (E0)

• No. 5 Axial (E1)

• No. 6 Axial (R1)

• No. 7 Axial (R2)

• No. 8 Axial (R3)

• No. 9 Axial (R4)

• No. 10 (TO-220F-2 Pin)


a. Part No.
b. Polarity
c. Lot No.

• No. 11 (FM80-2 Pin)

• No. 12 Surface Mount (TO-220S)


a. Part No.
b. Polarity
c. Lot No.



(unit: mm)

4-3-2 2 Chip

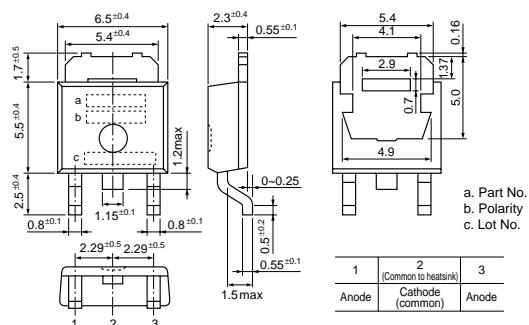
Part No.	V _{RM} (V)	I _F (A)	I _{FSM} (A)	trr① (nS)	trr② (nS)	Package	Fig. No.
FMX-12S	200	5.0	35	30	25	TO-220F	2
FML-12S			35	40	30		
FMG-12S, R			35	100	50		
SPX-62S		6.0	80	30	25		
FML-22S			65	30	25	Surface mount (D pack)	1
FMG-22S, R		10.0	65	40	30		
FMX-22SL			65	100	50		
FMX-32S			15.0	100	30		
FML-32S		20.0	150	30	25	TO-220F	2
MP2-202S			150	40	30		
FMG-32S, R		20.0	110	50	35		
FML-13S	300	5.0	150	100	50	FM80	3
FMG-13S, R			40	50	35		
FMX-23S			35	100	50		
FMG-23S, R		10.0	65	30	25		
FML-23S			65	100	50		
FMX-2203			70	50	35		
FMX-33S		20.0	100	30	25	TO-220F	2
FML-33S			100	30	25		
FMG-33S, R			100	50	35		
			150	100	50	FM80	3

trr① : I_r=I_F 90% Recovery Point
trr② : I_r=2×I_F 75% Recovery Point

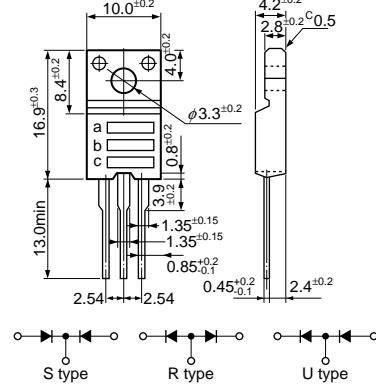
Part No.	V _{RM} (V)	I _F (A)	I _{FSM} (A)	trr① (nS)	trr② (nS)	Package	Fig. No.
FMG-14S, R	400	5.0	35	100	50	TO-220F	2
FML-14S		40	50	35	35		
FMG-24S, R		8.0	65	100	50		
FML-24S	600	10.0	70	50	35	FM80	3
FMG-34S, R		16.0	100	100	50		
FML-34S		20.0	100	50	35		
FMC-26U	800	3.0	50	70	35	TO-220F	2
FMG-26S, R		6.0	50	100	50		
FMG-36S, R		15.0	80	100	50		
FML-36S	1200	20.0	100	65	35	TO-220F-2Pin	4
FMC-28U		800	3.0	50	70		
FMC-26UA		1200	3.0	50	70		
FMC-28UA	1600	3.0	50	70	35		

External Dimensions

• No. 1 Surface Mount (D pack)

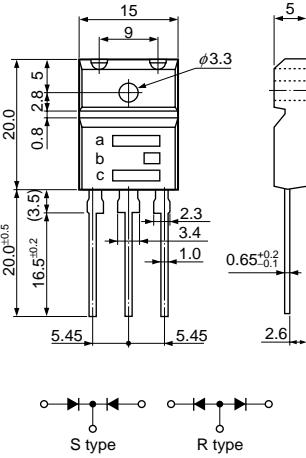


• No. 2 (TO-220F)

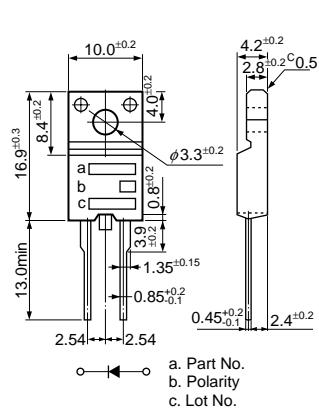


a. Part No.
b. Polarity
c. Lot No.

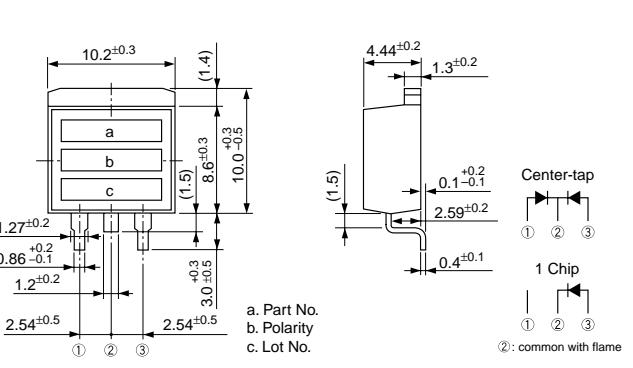
• No. 3 (FM80)



• No. 4 (TO-220F-2 Pin)



• No. 5 Surface Mount (TO-220S)



a. Part No.
b. Polarity
c. Lot No.

(unit: mm)

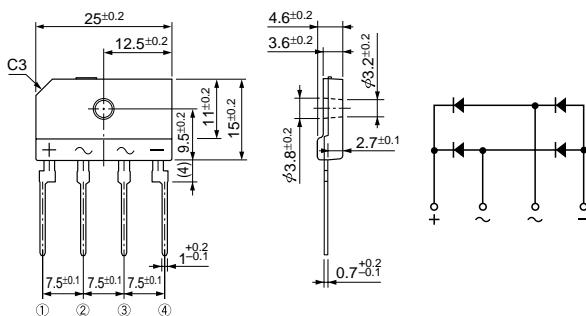
4-3-3 Bridge

trr① : $I_R = I_F$ 90% Recovery Point
 trr② : $I_R = 2 \times I_F$ 75% Recovery Point

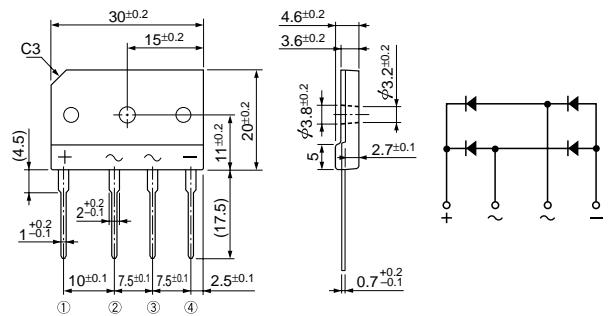
Part No.	V _{RM} (V)	I _F (A)	I _{FSM} (A)	trr① (nS)	trr② (nS)	Package	Fig. No.
RBV-402L	200	4.0	80	40	30	RBV-40	1
RBV-602L		6.0	100	50	35	RBV-60	2

External Dimensions

• No. 1 (RBV-40)



• No. 2 (RBV-60)



(unit: mm)

4-4-1 1 Chip

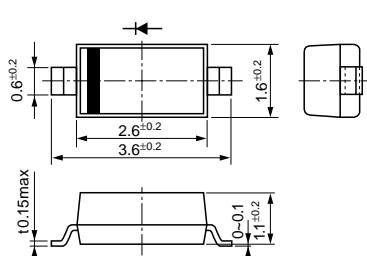
Part No.	V _{RM} (V)	I _o (A)	V _F (V)	I _R (mA)	Package	Fig. No.	
SFPA-53	30	1.0	0.36	1.5	Surface mount (SFP)	2	
EA 03			0.36	1.5	Axial(E0)	5	
MI2A3*			0.39	2.0	Surface mount (Compact)	1	
SFPJ-53		1.5	0.45	1.0	Surface mount (SFP)	2	
MI1A3			0.47	1.0	Surface mount (Compact)	1	
AK 03			0.55	1.0	Axial(A0)	4	
EK 03			0.55	5.0	Axial(E0)	5	
EK 13		2.0	1.5	0.55	5.0	Axial(E1)	6
RK 13			1.7	0.55	5.0	Axial(R1)	7
SFPA-63			0.36	3.0	Surface mount (SFP)	2	
RA 13			0.36	3.0	Axial(R1)	7	
SFPJ-63			0.45	2.0	Surface mount (SFP)	2	
SFPE-63*			0.55	0.2		2	
RK 33		3.0	2.5	0.55	5.0	Axial(R2)	8
SFPA-73			0.36	4.5	Surface mount (SFP)	2	
SFPJ-73			0.45	3.0		2	
RJ 43			0.45	3.0	Axial(R4)	9	
RK 43			0.55	5.0	Surface mount (D pack)	3	
SPJ-G53S			5.0	0.45		3	
SFPB-54	40	1.0	0.55	1.0	Surface mount (SFP)	2	
AK 04			0.55	1.0	Axial(A0)	4	
EK 04			0.55	5.0	Axial(E0)	5	
AE 04*			0.6	0.1	Axial(A0)	4	
AW 04			0.58	5.0	Axial(A0)	4	
SFPB-64		1.5	0.55	5.0	Surface mount (SFP)	2	
EK 14			0.55	5.0	Axial(E1)	6	
RK 14		1.7	0.55	5.0	Axial(R1)	7	
SFPB-74		2.0	0.50	5.0	Surface mount (SFP)	2	
SFPE-64			0.60	0.2		2	
EE 04*	3.0	2.5	0.6	0.2	Axial(E0)	5	
RK 34			0.55	5.0	Axial(R2)	8	
SPB-G34S		3.0	0.55	3.5	Surface mount (D pack)	3	
RK 44			0.55	5.0	Axial(R4)	9	
FMB-G14			0.60	5.0	TO-220F-2Pin	10	
SPB-G54S	5.0	5.0	0.55	5.0	Surface mount (D pack)	3	
FMB-G14L			0.55	5.0	TO-220F-2Pin	10	
FMB-G24H	10	0.55	10			10	

* Under Development

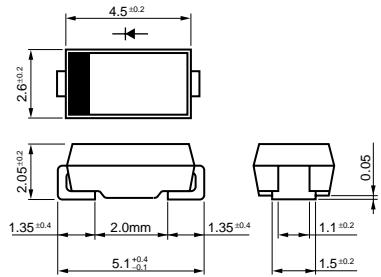
Part No.	V _{RM} (V)	I _o (A)	V _F (V)	I _R (mA)	Package	Fig. No.	
SFPB-56	60	0.7	0.62	1.0	Surface mount (SFP)	2	
AK 06			0.62	1.0	Axial(A0)	4	
EK 06			0.62	1.0	Axial(E0)	5	
SFPW-56		1.5	0.7	1.0	Surface mount (SFP)	2	
EK 16			0.62	1.0	Axial(E1)	6	
RK 16			0.62	1.0	Axial(R1)	7	
SFPB-76		2.0	0.62	2.0	Surface mount (SFP)	2	
RK 36			0.62	2.0	Axial(R2)	8	
SFPB-66			0.69	1.0	Surface mount (SFP)	2	
RK 46		3.5	0.62	3.0	Axial(R4)	9	
FMB-G16L			5.0	0.62	5.0	TO-220F-2Pin	10
SPB-G56S			6.0	0.70		Surface mount (D pack)	3
SFPB-59	90	0.7	0.81	1.0	Surface mount (SFP)	2	
AK 09			0.81	1.0	Axial(A0)	4	
EK 09			0.81	1.0	Axial(E0)	5	
SFPB-69		1.5	0.81	2.0	Surface mount (SFP)	2	
EK 19			0.81	2.0	Axial(E1)	6	
RK 19			0.81	2.0	Axial(R1)	7	
RK 39		2.0	0.81	3.0	Axial(R2)	8	
RK 49			3.5	0.81	5.0	Axial(R4)	9
FMB-G19L			4.0	0.81	5.0	TO-220F-2Pin	10

External Dimensions

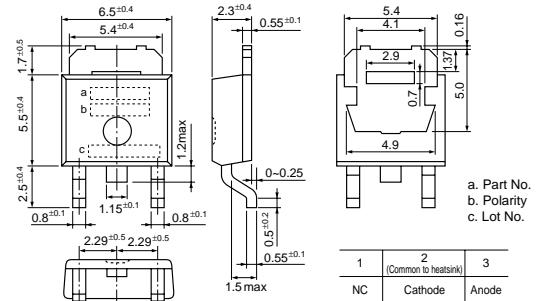
• No. 1 Surface Mount (SOT23)



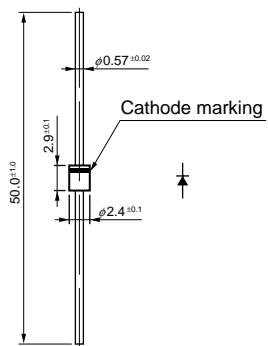
• No. 2 Surface Mount (SFP)



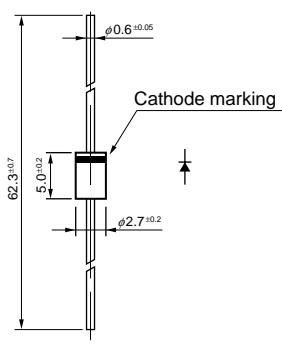
• No. 3 Surface Mount (D pack)



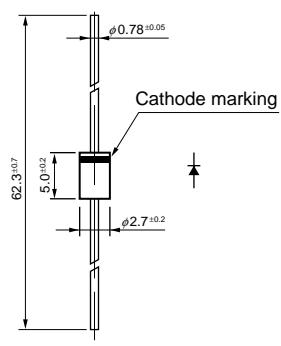
• No. 4 Axial (A0)



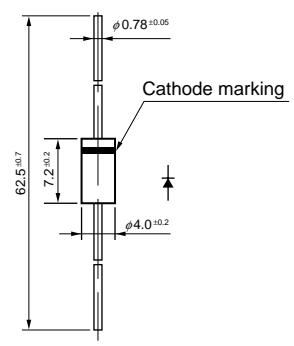
• No. 5 Axial (E0)



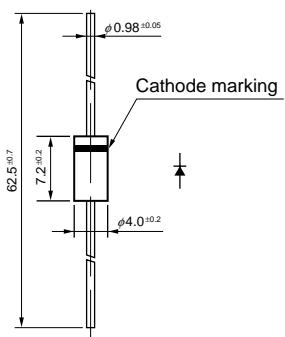
• No. 6 Axial (E1)



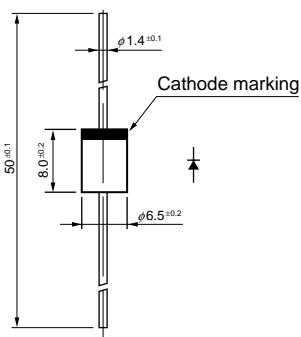
• No. 7 Axial (R1)



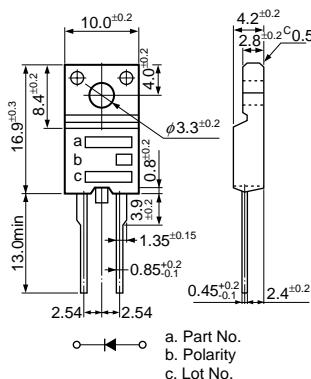
• No. 8 Axial (R2)



• No. 9 Axial (R4)



• No. 10 (TO-220F-2 Pin)



a. Part No.
b. Polarity
c. Lot No.

(unit: mm)

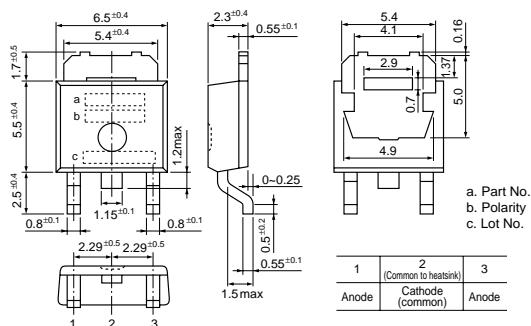
4-4-2 2 Chip

Part No.	V _{RM} (V)	I _o (A)	V _F (V)	I _R (mA)	Package	Fig. No.
SPJ-63S	30	6.0	0.45	3.0	Surface mount (D pack)	1
FMJ-23L		10	0.45	5.0	TO-220F	2
FMJ-2203		20	0.45	10		
FMJ-2303		30	0.45	15		
FMB-24	40	4.0	0.55	5.0	TO-220F	
SPB-64S		6.0	0.55	3.5	Surface mount (D pack)	1
FMB-24M			0.55	5.0	TO-220F	2
FMW-24L		10	0.55	5.0	TO-220F	2
FMB-24L			0.55	5.0		
FME-2104			0.60	0.5		
FMB-34S		12	0.58	5.0	FM80	4
FMW-24H		15	0.55	7.5	TO-220F	2
FMB-24H			0.55	7.5		
FMB-34			0.55	10	FM80	4
MPE-24H			0.60	0.75	TO-220S	3
FME-24H			0.60	0.75	TO-220F	
FMB-2204	20	0.55	10		TO-220F	2
FMW-2204			0.55	10		
FMB-2304		30	0.55	15		
FMB-34M		30	0.55	20	FM80	4

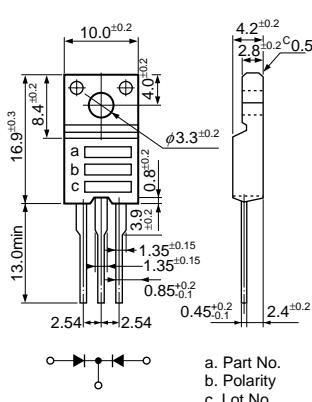
Part No.	V _{RM} (V)	I _o (A)	V _F (V)	I _R (mA)	Package	Fig. No.
FMB-26	60	4.0	0.62	1.0	TO-220F	2
SPB-66S		6.0	0.65	1.0	Surface mount (D pack)	1
FMB-26L		10	0.62	2.5	TO-220F	2
FME-2106		15	0.72	1.0		
FMB-36	90	15	0.62	5.0	FM80	4
FMB-2206		20	0.7	8.0	TO-220F	2
FMB-36M		30	0.62	10.0	FM80	4
FMB-2306		15	0.7	8.0	TO-220F	
FMB-29	100	4.0	0.81	3.0	TO-220F	2
FMB-29L		8.0	0.81	5.0		
FMB-39		15	0.81	10	FM80	4
FMB-39M		20	0.81	15	FM80	
MPE-29G	100	0.85	1.0		TO-220S	3
FME-220A		20	0.85	1.0	TO-220F	2
FME-230A	30	0.85	1.5		TO-220F	

External Dimensions

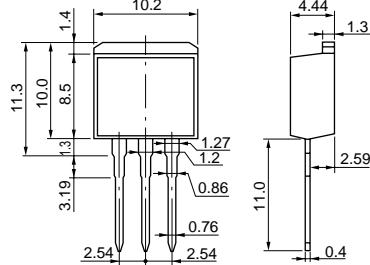
• No. 1 Surface Mount (D pack)



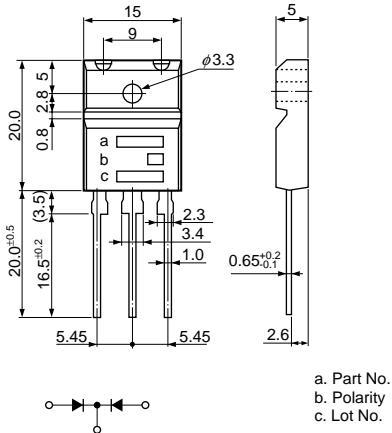
• No. 2 (TO-220F)



• No. 3 (TO-220S)



• No. 4 (FM80)



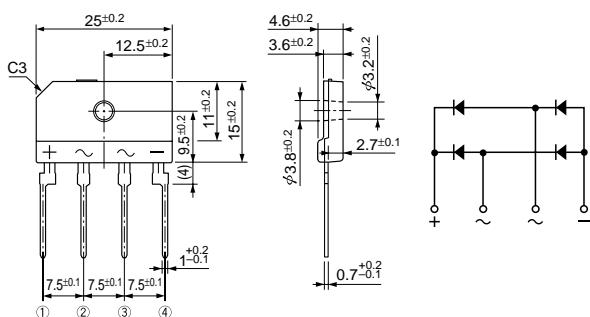
(unit: mm)

4-4-3 Bridge

Part No.	V_{RM} (V)	I_o (A)	V_F (V)	I_R (mA)	Package	Fig. No.
RBV-406B	60	4.0	0.62	2.0	RBV-40	1

External Dimensions

- No. 1 (RBV-40)



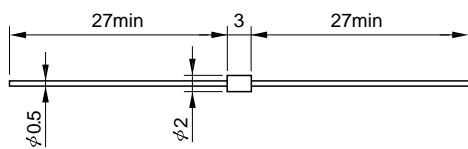
(unit: mm)

Division	Part No.	VRM (kV)	IF(AV) (mA)	VF(max) (V)	trr (μ S) IF=IRP		Fig. No.
					Ta=25°C	Ta=100°C	
General purpose	SHV-02	2	2	16	0.18	-	1
	SHV-03S	3	2	16	0.18	-	
	SHV-03	3	2	16	0.18	-	2
For general FBT	SHV-10	10	2*	40	0.18	-	
	SHV-12	12	2*	45	0.18	-	3
	SHV-14	14	2*	55	0.18	-	
	SHV-16	16	2*	60	0.18	-	
	SHV-20	20	2*	75	0.18	-	4
	SHV-24	24	2*	75	0.18	-	
For high-frequency multi-layer FBT	SHV-06EN	6	2*	26	0.15	0.2	
	SHV-08EN	8	2*	30	0.15	0.2	5
	SHV-10EN	10	2*	38	0.15	0.2	
	SHV-12EN	12	2*	45	0.15	0.2	6
For ultra-high-frequency multi-layer FBT	SHV-08DN	8	2*	30	0.15	0.2	
	SHV-10DN	10	2*	38	0.15	0.2	6
	SHV-12DN	12	2*	45	0.15	0.2	
For general type microwave oven	HVR-1X-40B	9	350	9	-	-	
For inverter-type microwave oven	UX-F5B	8	350	14	0.15	-	7
For automotive ignition coil	SHV-05JS	2.5	30	5	Vz=2.6~5.0kV		2
	SHV-06JN	3	30	6	Vz=3.2~6.0kV		5
	SHV-08J	4	30	8	Vz=4.5~8.0kV		8
	SHV-30J	15	30	30	Vz=16.0~30.0kV		6

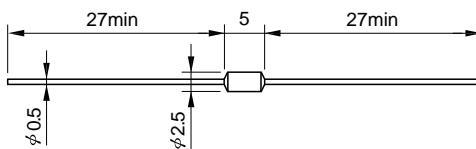
*FBT High voltage Rectifier Capacitive Load, Tc≤100°C

External Dimensions

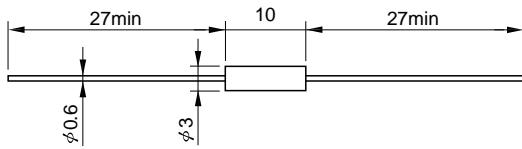
• No. 1



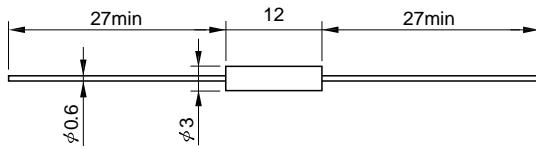
• No. 2



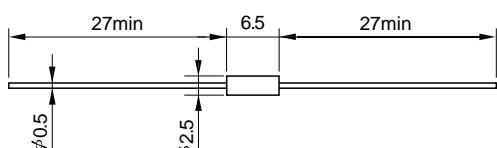
• No. 3



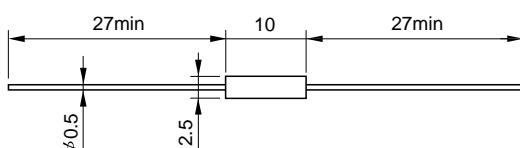
• No. 4



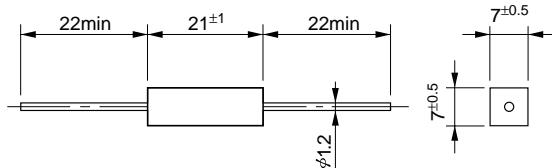
• No. 5



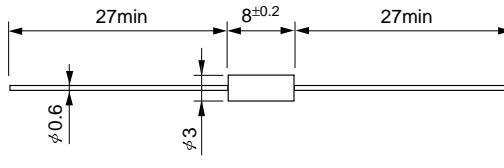
• No. 6



• No. 7



• No. 8



(unit: mm)

4-6-1 Damper Diodes

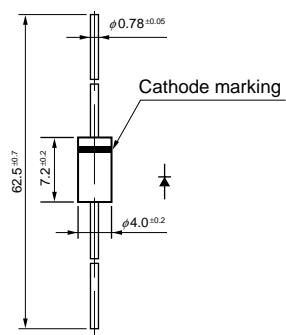
trr① : $I_R = I_F$
 trr② : $I_R = 2 \times I_F$

90% Recovery Point
 75% Recovery Point

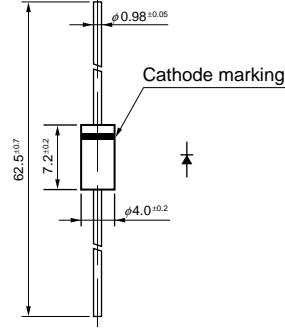
Application	Part No.	V _{RM} (V)	I _F (A)	trr① (μS)	trr② (μS)	Package	Fig. No.
For TV	RH 2D	1300	1.0	4.0	1.3	Axial(R2)	2
	RH 10F		0.8	4.0	1.3	Axial(R1)	1
	RH 2F		1.0	4.0	1.3	Axial(R2)	2
	RS 3FS		2.0	2.0	0.8	Axial(R3)	3
	RS 4FS		2.5	1.0	0.4	Axial(R4)	4
	RH 3F			4.0	1.3	Axial(R3)	3
	RH 4F			4.0	1.3	Axial(R4)	4
	RH 3G	1600	2.5	4.0	1.3	Axial(R3)	3
	FMR-G5HS	1800	10.0	1.8	0.7	TO-3PF-2Pin	6
	RU 4D	1300	1.5	0.4	0.18	Axial(R4)	4
	RU 4DS		2.5	0.4	0.18		
For CRT Display	RP 3F	1500	2.0	0.7	0.3	Axial(R3)	3
	FMQ-G1FS		5.0	0.7	0.3	TO-220F-2Pin	5
	FMQ-G2FS		10.0	0.5	0.2		5
	FMQ-G2FMS			0.5	0.2	TO-3PF-2Pin	6
	FMQ-G5FMS			0.5	0.2	TO-220F-2Pin	5
	FMU-G2FS			0.6	0.25		5
	FMQ-G2FLS			1.2	0.4	TO-3PF-2Pin	6
	FMQ-G5GS	1700	10.0	0.5	0.2		6
	FMP-G5HS	1800	8.0	1.0	0.4		
For CRT Display compensation	RG 2A2	1300	0.5	0.1	0.05	Axial(R2)	2
	RC 3B2	1600	1.0	0.07	0.035	Axial(R3)	3

External Dimensions

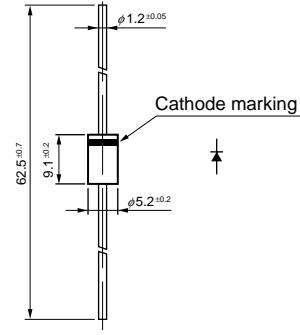
• No. 1 Axial (R1)



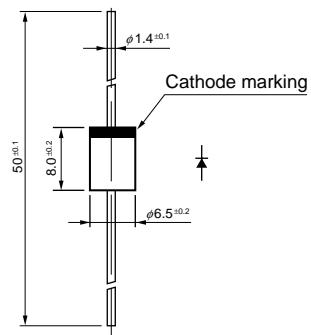
• No. 2 Axial (R2)



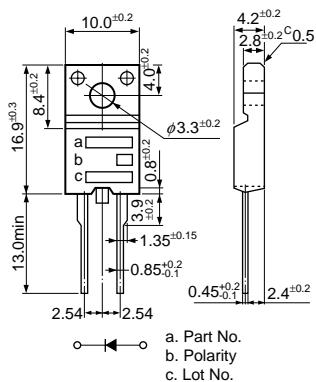
• No. 3 Axial (R3)



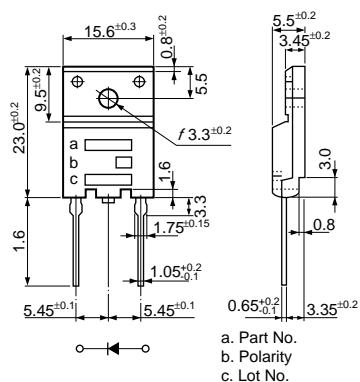
• No. 4 Axial (R4)



• No. 5 (TO-220F-2 Pin)



• No. 6 (TO-3PF-2 Pin)



(unit: mm)

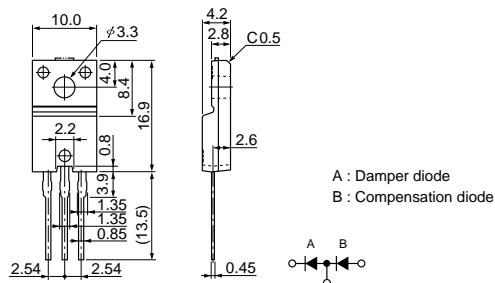
4-6-2 DM Damper Diodes

trr① : $I_R=I_F$ 90% Recovery Point
 trr② : $I_R=2 \times I_F$ 75% Recovery Point

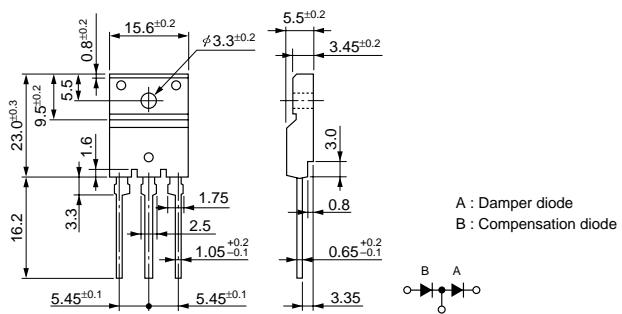
Application	Part No.	V_{RM} (V)	I_F (A)	trr① (μ S)	trr② (μ S)	Package	Fig. No.	
For TV	FMV-3FU	1500/600	5.0	4.0/0.4	1.3/0.18	TO-3PF	2	
	FMV-3GU	1700/600	5.0	2.0/0.4	0.8/0.18	TO-3PF		
	FMV-3HU	1800/600	5.0	2.0/0.4	0.8/0.18	TO-3PF		
For CRT Display	FMP-3FU	1500/600	5.0	0.7/0.1	0.3/0.05	TO-3PF	1	
	FMP-2FUR			0.7/0.1	0.3/0.05	TO-220F		
	FMQ-2FUR			2.0/0.15	0.8/0.07			
	FMT-2FUR			1.0/0.1	—			
	FMQ-3GU	1700/800	5.0	0.7/0.07	0.3/0.04	TO-3PF	2	

External Dimensions

• No. 1 TO-220F (Damper)



• No. 2 TO-3PF (Damper)

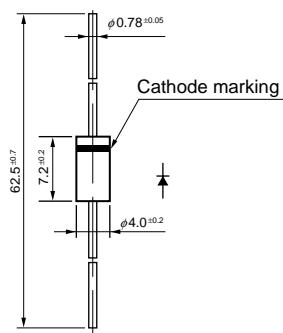


(unit: mm)

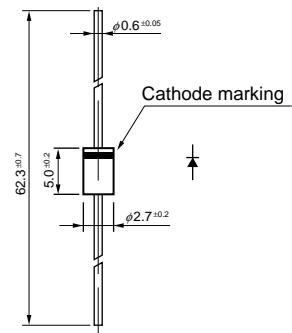
Part No.	V _Z (V)	V _{RDC} (V)	I _{TSM} (A)	Package	Fig. No.	
RZ1030	27~ 33	20	30	Axial(R1)	1	
RZ1040	34~ 40	28	30			
RZ1055	50~ 60	40	30			
RZ1065	60~ 70	50	30			
RZ1100	90~ 110	80	30			
RZ1125	115~ 135	105	30			
RZ1150	140~ 160	125	30		2	
EZ0150						
RZ1155	150~ 165	138.7	30	Axial(R1)	1	
RZ1175	165~ 185	150	30			
RZ1200	185~ 215	180	30			
RZ1235	220~250	179.5	30			
RZ1250	235~265	190	30			

External Dimensions

• No. 1 Axial (R1)



• No. 2 Axial (E0)

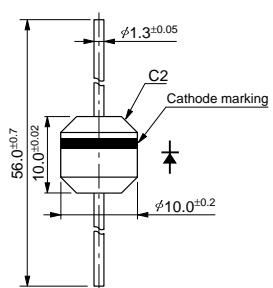


(unit: mm)

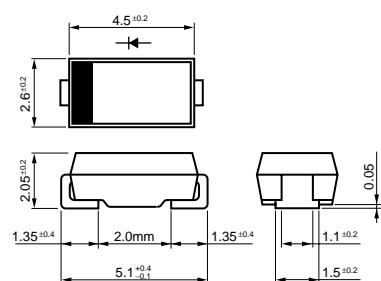
Part No.	V _Z (V)	P _R (W)	V _{DC} (V)	I _{TSM} (A)	Package	Fig. No.
PZ628	28±3.0	1500	20	65.0	Axial	1
SFPZ-68	28±3.0	50	20	2.0	Surface mount (SFP)	2
SPZ-G36	36±3.6	450	30	11.0	Surface mount (D pack)	3

External Dimensions

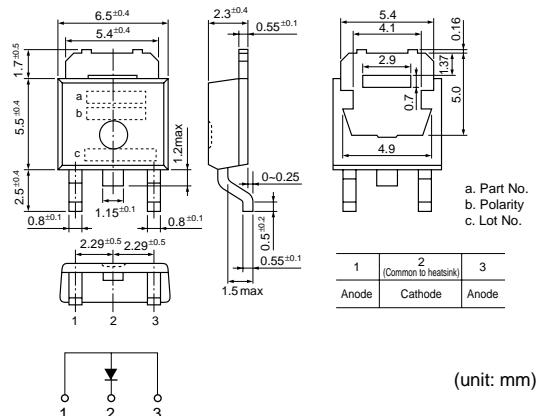
• No. 1 Axial (PZ628)



• No. 2 Surface Mount (SFP)



• No. 3 Surface Mount (D pack)

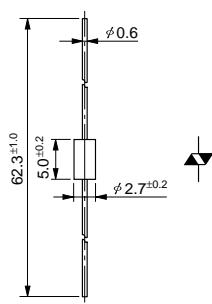


(unit: mm)

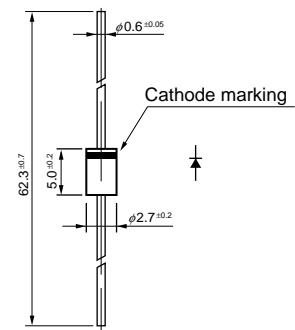
Division	Part No.	V_F (V)	I_F (mA)	I_{FSM} (A)	Package	Fig. No.
Unsymmetrical type	VR-60SS	1.5max	400	15	Axial(E0)	1
	VR-61SS	2.3 ± 0.25	150	7.5		
	SV-2SS	4max	150	-		
	SV-3SS	2max	250	-		
	SV-4SS	1.8 ± 0.2	150	-		
Symmetrical type	SV 02YS	1.2 ± 0.2	200	30	Axial(E0)	2
	SV 03YS	1.8 ± 0.2	150	16		
	SV 04YS	2.35 ± 0.25	100	12		
	SV 05YS	3.0 ± 0.3	80	10		
	SV 06YS	3.5 ± 0.35	70	8		

External Dimensions

• No. 1 Axial (E0)



• No. 2 Axial (E0)



(unit: mm)

5

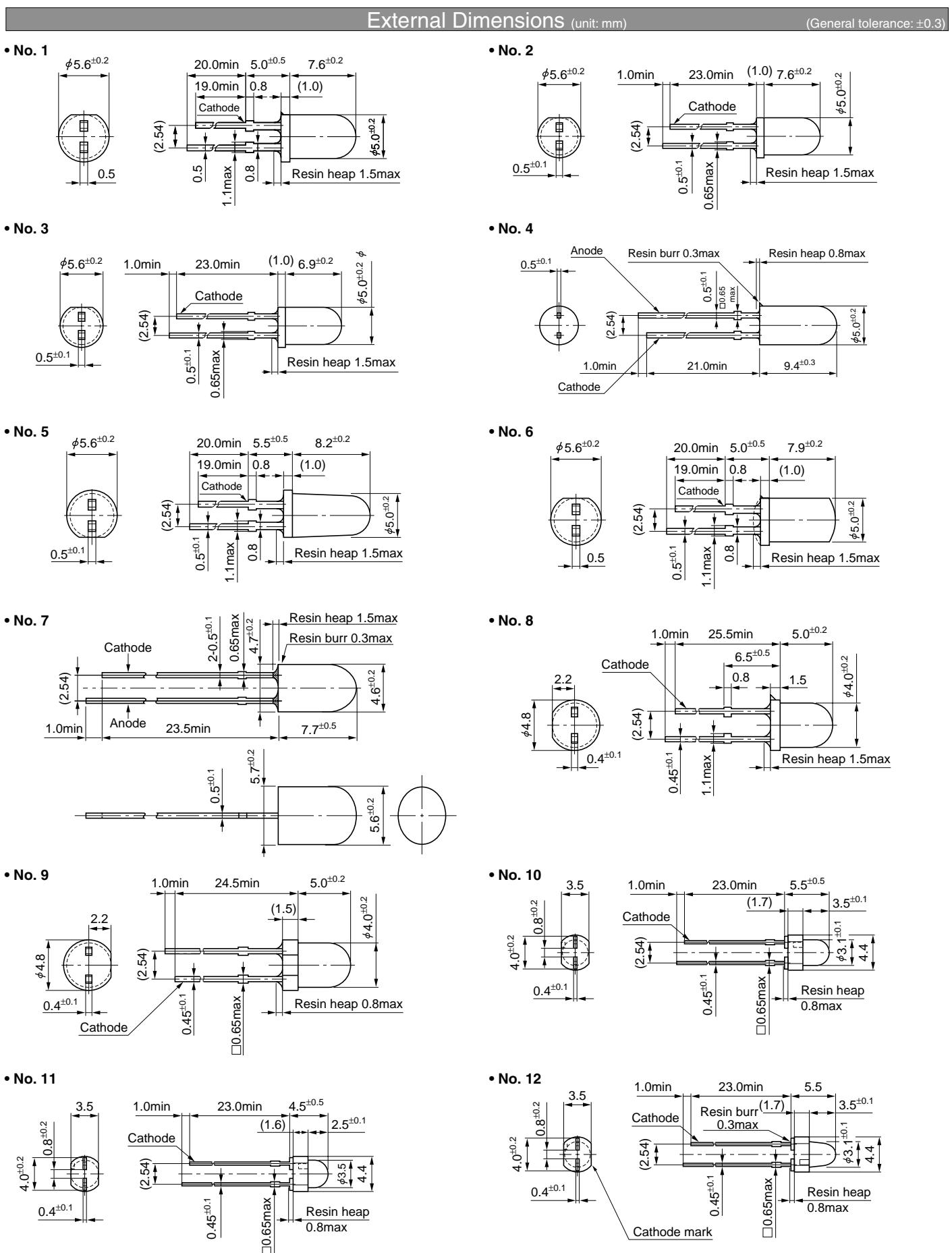
LED

5-1 LED Lamps	62
5-1-1 Single-color Lamps	62
5-1-2 Bicolor Lamps	68
5-2 Surface mount LEDs	70
5-2-1 Single-color Surface mount	70
5-2-2 Bicolor Surface mount	70
5-3 Infrared LEDs	72

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V_F		Electro-Optical Characteristics (Ta=25°C)					Fig. No.	
				$I_F=10mA$ (V)		Intensity I _v (mcd)	PeakWave- length λ_P (mm)	Chip Material	Direct Mount			
				typ	max							
4φ bow-shaped type	SEL4227C	Red	Clear	1.9	2.5	15	20	630	GaAsP	×	26	
	SEL4427EP	Green	Transparent green	2.0	2.5	19	20	560	GaP	×		
	SEL6227S	Red	Transparent red	1.9	2.5	14	20	630	GaAsP	○		
	SEL6927A	Orange	Transparent orange	1.9	2.5	10	10	587	GaAsP	○		
	SEL6427EP	Green	Transparent green	2.0	2.5	26	20	560	GaP	○		
	SEL4628C-S	High-intensity red	Clear	1.7	2.2	200	20	660	GaAlAs	×	28	
	SEL4228C	Red	Clear	1.9	2.5	27	20	630	GaAsP	×		
	SEL4828A	Amber	Transparent orange	1.9	2.5	14	10	610	GaAsP	×		
	SEL4928A	Orange	Transparent orange	1.9	2.5	14	10	587	GaAsP	×		
	SEL4728K	Yellow	Transparent yellow	2.0	2.5	30	10	570	GaP	×		
3.1φ bow-shaped type	SEL4428E	Green	Transparent green	2.0	2.5	63	20	560	GaP	×	28	
	SEL4428B-TG	Deep green	Transparent dark navy blue	2.0	2.5	18	20	558	GaP	×		
	SEL4528C	Pure green	Clear	2.0	2.5	30	20	555	GaP	×		
	SEL4229R	Red	Diffused red	1.9	2.5	21	20	630	GaAsP	○		
	SEL4829A	Amber	Transparent orange	1.9	2.5	18	10	610	GaAsP	○		
	SEL4929A	Orange	Transparent orange	1.9	2.5	18	10	587	GaAsP	○	29	
	SEL4729KH	Yellow	Transparent yellow	2.0	2.5	60	10	570	GaP	○		
	SEL4429E	Green	Transparent green	2.0	2.5	60	20	560	GaP	○		
	SEL5620C	High-intensity red	Clear	1.7	2.2	100	20	660	GaAlAs	○	30	
	SEL5220S	Red	Transparent red	1.9	2.5	20	20	630	GaAsP	○		
5mm pitch lead rectangular type	SEL5820A	Amber	Transparent orange	1.9	2.5	12	20	610	GaAsP	○		
	SEL5920A	Orange	Transparent orange	1.9	2.5	12	20	587	GaAsP	○		
	SEL5420E	Green	Transparent green	2.0	2.5	20	20	560	GaP	○		
	SEL5520C	Pure green	Clear	2.0	2.5	6.0	20	555	GaP	○		
	SELU5E20C	Ultra-high-intensity blue	Clear	3.3	4.0	60	10	470	InGaN	○		
	SEL5221S	Red	Transparent red	1.9	2.5	35	20	630	GaAsP	○	31	
	SEL5821A	Amber	Transparent orange	1.9	2.5	60	20	610	GaAsP	○		
	SEL5921A	Orange	Transparent orange	1.9	2.5	60	20	587	GaAsP	○		
5mm pitch lead 3φ lens type	SEL5721C	Yellow	Clear	2.0	2.5	90	20	570	GaP	○		
	SEL5421E	Green	Transparent green	2.0	2.5	95	20	560	GaP	○		
	SEL5521C	Pure green	Clear	2.0	2.5	35	20	555	GaP	○		

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V_F		Electro-Optical Characteristics (Ta=25°C)					Fig. No.	
				$I_F=10mA$ (V)		Intensity I _v (mcd)	PeakWave- length λ_P (mm)	Chip Material	Direct Mount			
				typ	max							
5mm pitch lead egg-shaped type	SEL5223C	Ultra-high-intensity red	Clear	2.0	2.5	100	20	635	AlGaNp	○	32	
	SEL5223S	Red	Transparent red	1.9	2.5	25	20	630	GaAsP	○		
	SEL5823C	Ultra-high-intensity amber	Clear	2.0	2.5	130	20	615	AlGaNp	○		
	SEL5823C	Clear	185									
	SEL5823A	Amber	Transparent orange	1.9	2.5	35	20	610	GaAsP	○		
	SEL55B23C	Ultra-high-intensity light amber	Clear	2.0	2.5	135	20	600	AlGaNp	○		
	SEL5923C	Ultra-high-intensity orange	Clear	2.0	2.5	145	20	590	AlGaNp	○		
	SEL5923A	Orange	Transparent orange	1.9	2.5	35	20	587	GaAsP	○		
	SELU5723C	Ultra-high-intensity yellow	Clear	2.0	2.5	155	20	572	AlGaNp	○		
	SEL5723C	Yellow	Clear	2.0	2.5	60	20	570	GaP	○		
5mm pitch lead egg-shaped type	SEL5423E	Green	Transparent green	2.0	2.5	40	20	560	GaP	○	33	
	SEL5523C	Pure green	Clear	2.0	2.5	13	20	555	GaP	○		
	SELU5E23C	Ultra-high-intensity blue	Clear	3.6	4.0	110	10	470	InGaN	○		
	SEL5E23C	Blue	Clear	4.0	4.8	20	20	430	GaN	○		
	SEL5255S	Red	Transparent red	1.9	2.5	35	20	630	GaAsP	○		
	SEL5955A	Orange	Transparent orange	1.9	2.5	25	20	587	GaAsP	○		
5mm pitch lead egg-shaped type	SEL5755C	Yellow	Clear	2.0	2.5	140	20	570	GaP	○		

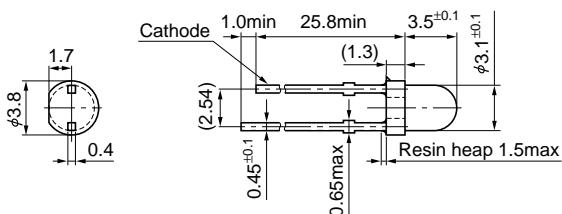
* Anode lead and cathode lead for GaAlAs products are positioned reversely.



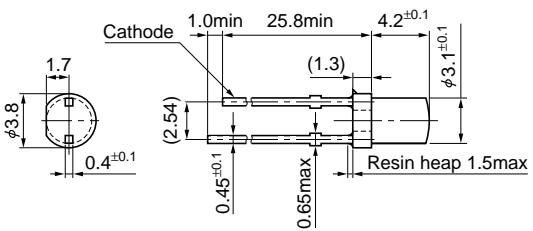
External Dimensions (unit: mm)

(General tolerance: ± 0.3)

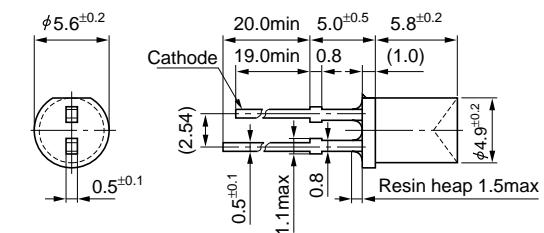
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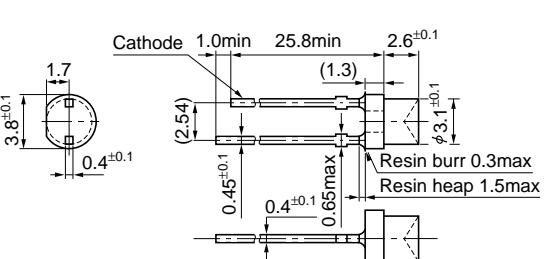
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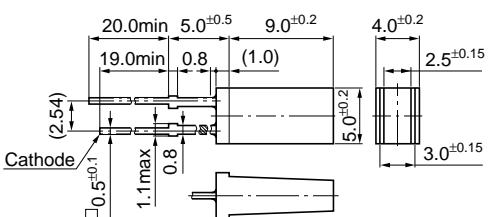
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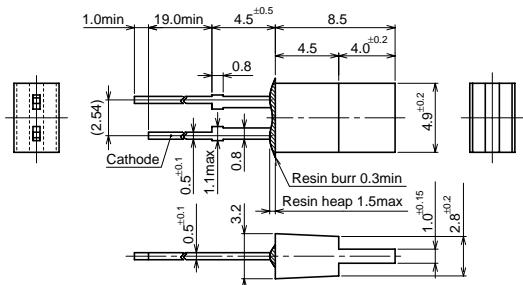
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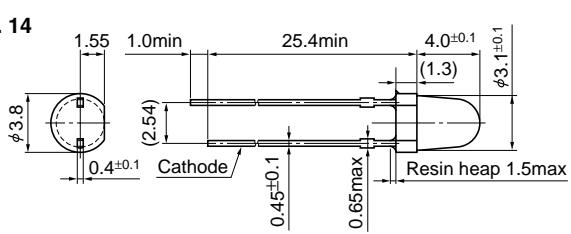
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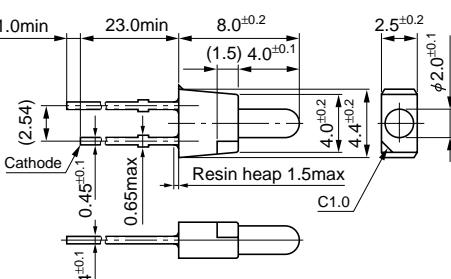
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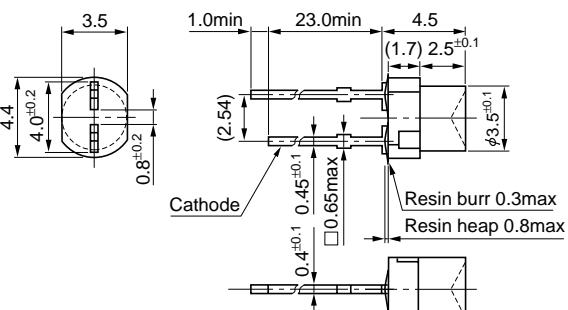
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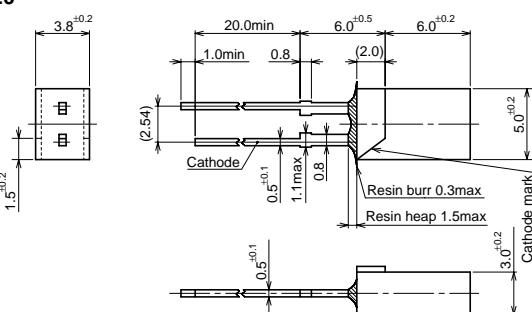
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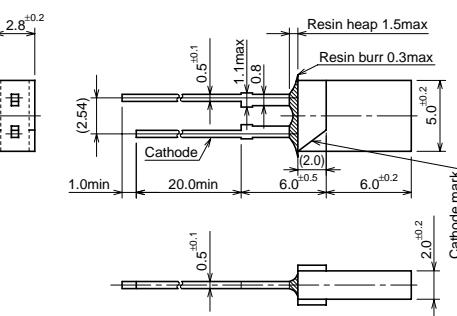
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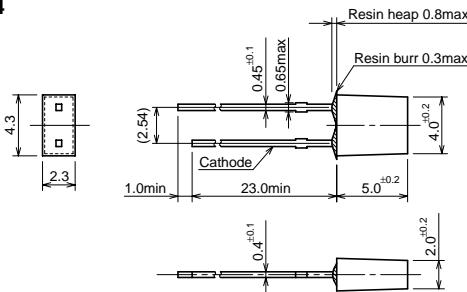
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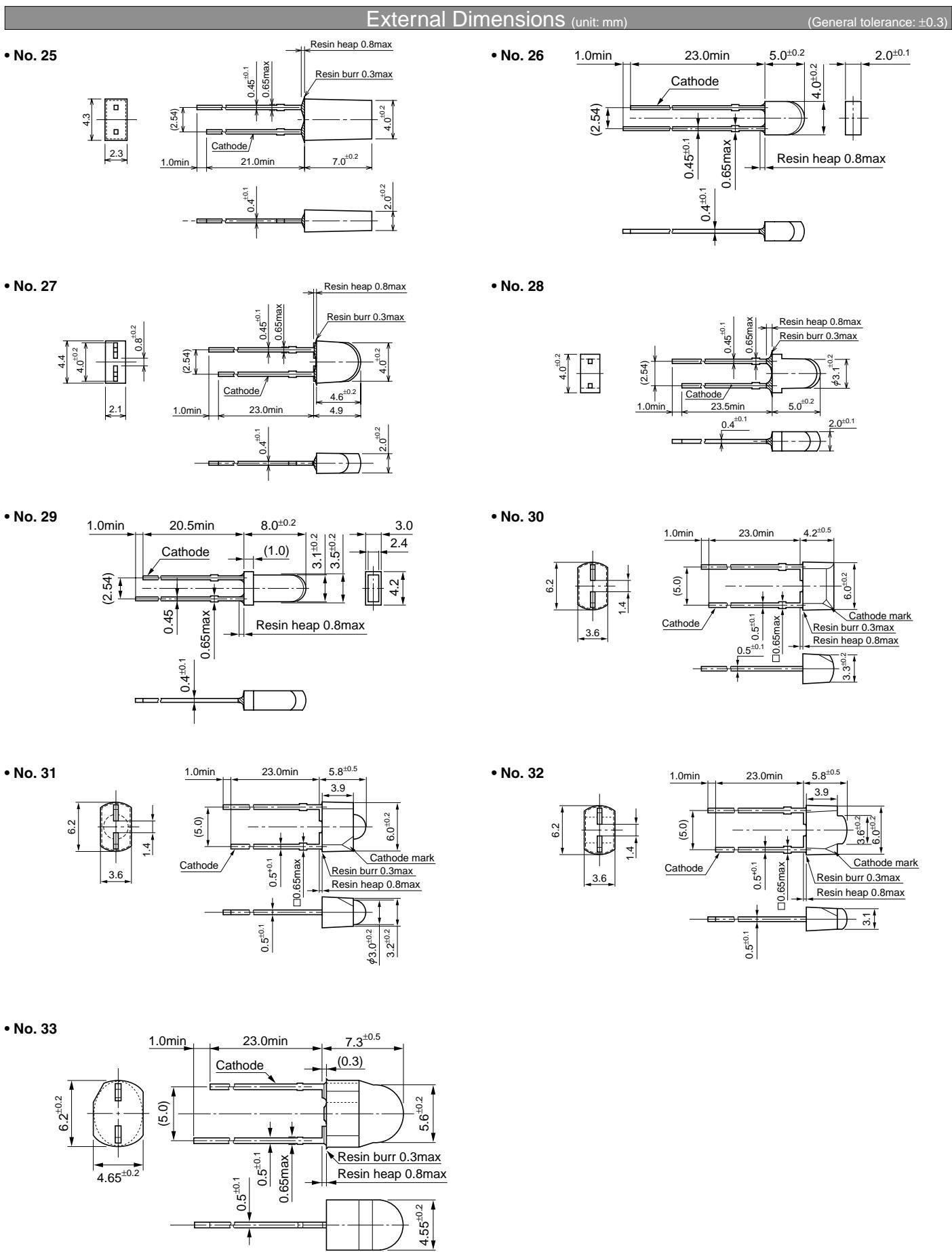


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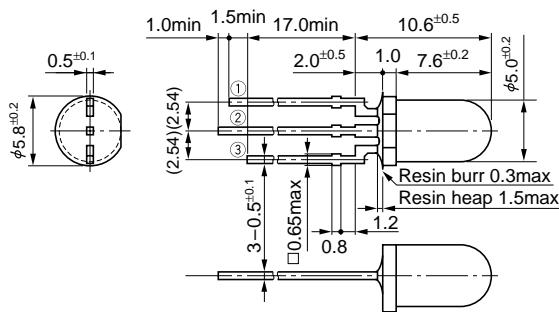




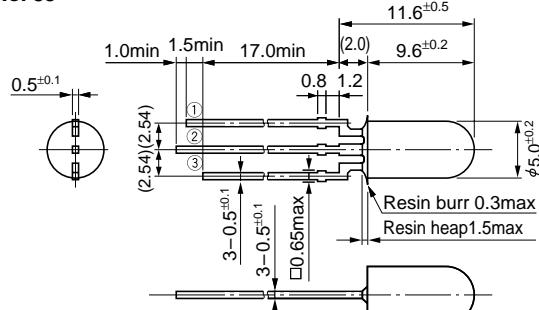
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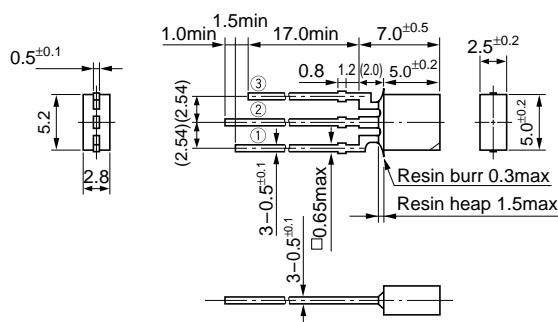
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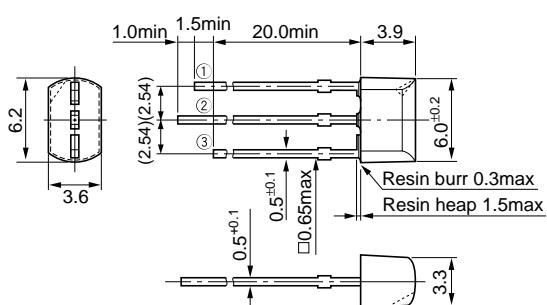
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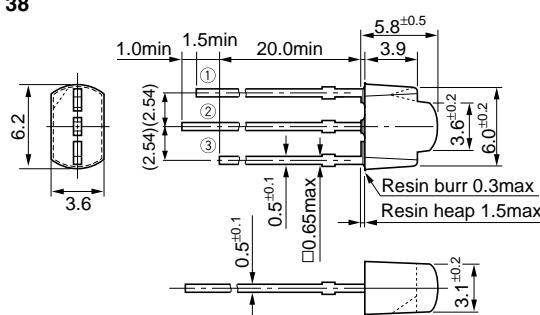
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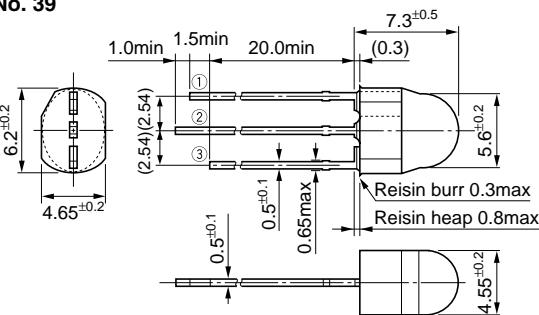
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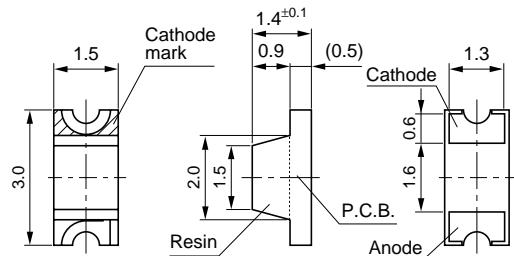
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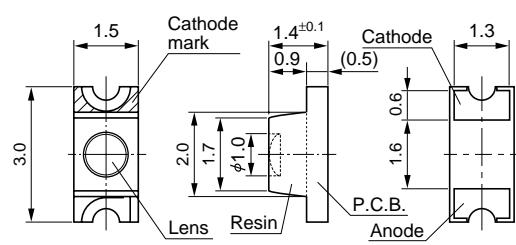
External Dimensions (unit: mm)

(General tolerance: ± 0.3)

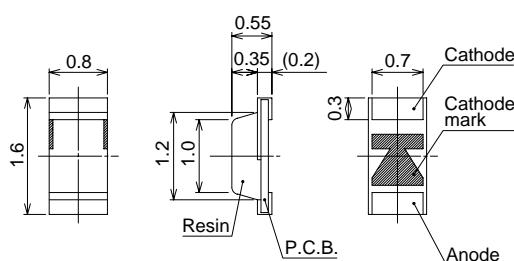
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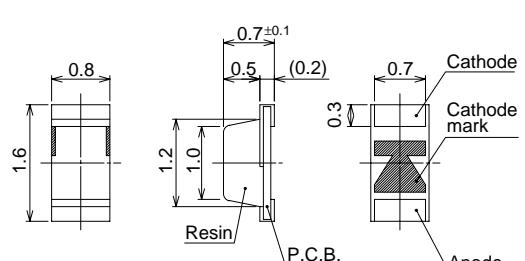
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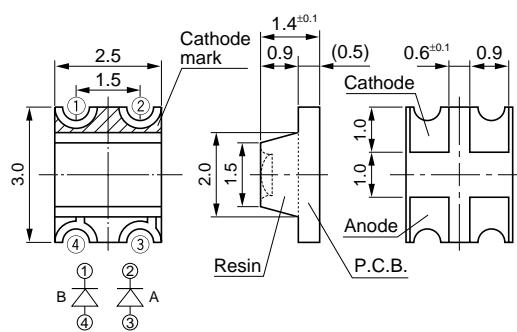
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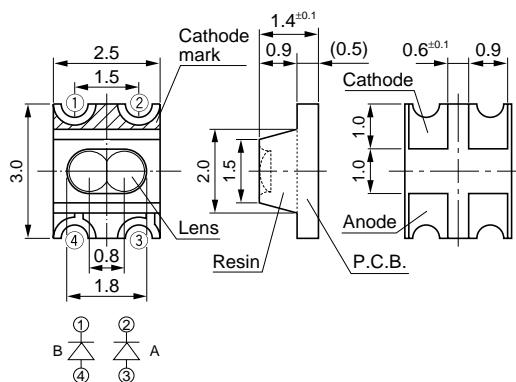
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• No. 44



• No. 45



Absolute Maximum Ratings

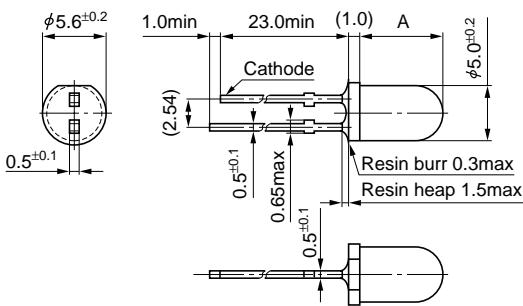
Parameter	Unit	Ratings	Conditions
I _F	mA	100	
ΔI _F	mA/°C	-1.33	Above 25°C
I _{FP}	mA	1000	f=1kHz, t _w ≤10μs
V _R	V	5	
Top	°C	-30~+85	
T _{stg}	°C	-30~+100	

Shape	Part No.	Emitting Color	Forward Voltage V _F			Electro-Optical Characteristics (Ta=25°C)				Fig. No.	
			I _F =10mA (V)		typ	PeakWave-length λ _P (nm)	Chip Material				
			typ	max			typ				
5φ round type	SID1010CM	Clear	1.3	1.5	130	(Constant voltage)	940	GaAs	×	44	
	SID1K10CM	Clear	1.3	1.5	200		940	GaAs	×		
	SID1010CXM	Clear	1.3	1.5	60		940	GaAs	×		
	SID1K10CXM	Clear	1.3	1.5	110		940	GaAs	×		
	SID1050CM	Clear	1.3	1.5	250	V _{cc} =3V, R=2.2Ω	940	GaAs	○	45	
	SID303C	Clear	1.3	1.5	80		940	GaAs	×		
	SID313BP	Transparent light purple	1.3	1.5	130		940	GaAs	×	46	
	SID1003BQ	Transparent light navy blue	1.3	1.5	180		940	GaAs	×		
3φ round type	SID307BR	Transparent dark navy blue	1.3	1.5	200	I _F =50mA	940	GaAs	×	47	
	SID1G307C	Clear	1.5	1.8	50		850	GaAlAs	×		
	SID2010C	Clear	1.3	1.5	7.0		940	GaAs	×		
SID2K10C	SID2K10C	Clear	1.3	1.5	14		940	GaAs	×		

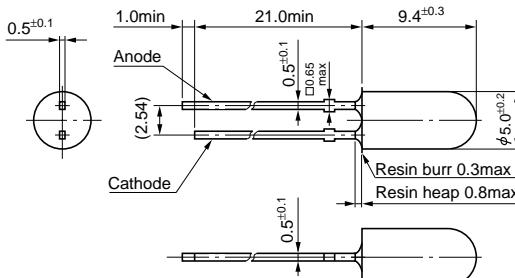
External Dimensions (unit: mm)

(General tolerance: ±0.3)

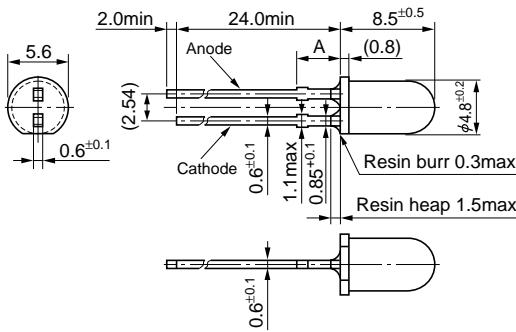
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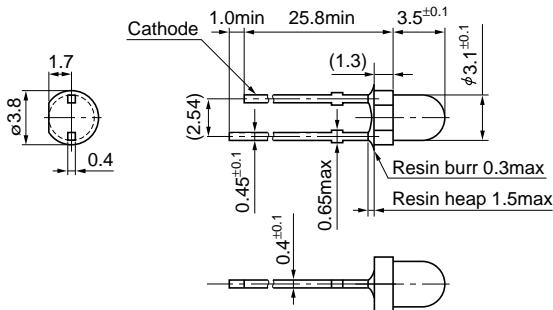
• No. 45



• No. 46



• No. 47



(unit: mm)

Dimension A

SID 303C	3.0±0.5
SID 313BP	
SID 1003BQ	3.6±0.5
SID 307BR	
SID1G307C	4.2±0.5

Index by Part Number

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2SB1588	Transistor (Complementary (Darlington) for Audio Output/General Purpose)		2SC4517	Transistor (For SMPS AC200V Input/General Purpose)	
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