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5-1-1 Single-color Lamps

■ Absolute Maximum Ratings

(Ta=25°C)

Parameter	Unit	Ratings						Conditions
		GaP	GaAsP	GaAlAs	AlGaInP	InGaN	GaN	
I _F	mA	30						
ΔI _F	mA/°C	-0.45						Above 25°C
I _{FP}	mA	100				70		f=1kHz, tw≤100μs
V _R	V	3		4		5		
Top	°C	-30~+85			-25~+85			
Tstg	°C	-30~+100						

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V _F		Electro-Optical Characteristics (Ta=25°C)			Direct Mount	Fig. No.	
				I _F =10mA (V)		I _v (mcd)	Conditions I _F (mA)	PeakWave-length λ _P (mm)			Chip Material
				typ	max						
5φ round type	SEL1110R	Deep red	Diffused red	2.0	2.5	2.8	5	700	GaP	×	
	SEL1110W		Diffused white							2.8	×
	SEL1110S		Transparent red	4.5	×						
	SEL1610W	High-intensity red	Diffused white	1.75	2.2	1000	20	660	GaAlAs	×	
	SEL1610C		Clear							1200	×
	SEL1210R	Red	Diffused red	1.9	2.5	26	20	630	GaAsP	×	
	SEL1210S		Transparent red							75	×
	SEL1810D	Amber	Diffused orange	1.9	2.5	18	10	610	GaAsP	×	
	SEL1810A		Transparent orange							37	×
	SEL1910D	Orange	Diffused orange	1.9	2.5	14	10	587	GaAsP	×	
	SEL1910A		Transparent orange							25	×
	SEL1710Y	Yellow	Diffused yellow	2.0	2.5	22	10	570	GaP	×	
	SEL1710K		Transparent yellow							65	×
	SEL1410G	Green	Diffused green	2.0	2.5	32	20	560	GaP	×	
	SEL1410E		Transparent green							84	×
SEL1510C	Pure green	Clear	2.0	2.5	50	20	555	GaP	×		
SEL1210RM	Red	Diffused red	1.9	2.5	36	20	630	GaAsP	×		
SEL1210SM		Transparent red							75	×	
SEL1810DM	Amber	Diffused orange	1.9	2.5	18	10	610	GaAsP	×		
SEL1810AM		Transparent orange							37	×	
SEL1910DM	Orange	Diffused orange	1.9	2.5	19	10	587	GaAsP	×		
SEL1910AM		Transparent orange							34	×	
SEL1710KM	Yellow	Transparent yellow	2.0	2.5	65	10	570	GaP	×		
SEL1410GM	Green	Diffused green	2.0	2.5	30	20	560	GaP	×		
SEL1410EM		Transparent green							84	×	
SEL1510CM	Pure green	Clear	2.0	2.5	50	20	555	GaP	×		
SEL1210CXM	Ultra-high-intensity red	Clear	2.0	2.5	280	20	635	AlGaInP	×		
SEL1810CXM	Ultra-high-intensity amber	Clear	2.0	2.5	570	20	615	AlGaInP	×		
SEL1D10CXM	Ultra-high-intensity pure green	Clear	3.3	4.0	2000	20	525	InGaN	×		
SEL1E10CXM	Ultra-high-intensity blue	Clear	3.3	4.0	600	20	470	InGaN	×		
SEL1250CM	Ultra-high-intensity red	Clear	2.0	2.5	900	20	635	AlGaInP	○		
SEL1250SM	Red	Transparent red	1.9	2.5	75	20	630	GaAsP	○		
SEL1250RM		Diffused red							48	○	
SEL1850AM	Amber	Transparent orange	1.9	2.5	90	20	610	GaAsP	○		
SEL1850DM		Diffused orange							60	○	
SEL1950KM	Orange	Transparent orange	1.9	2.5	96	20	587	GaAsP	○		
SEL1450EKM	Green	Transparent green	2.0	2.5	190	20	560	GaP	○		
SEL1450GM-YG		Diffused green							120	○	
SEL1550CM	Pure green	Clear	2.0	2.5	72	20	555	GaP	×		
SEL1D50CM	Ultra-high-intensity pure green	Clear	3.3	4.0	6000	20	525	InGaN	×		
SEL1E50CM	Ultra-high-intensity blue	Clear	3.3	4.0	1850	20	470	InGaN	×		
SEL1615C	High-intensity red	Clear	1.75	2.2	700	20	660	GaAlAs	×		

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V _F		Electro-Optical Characteristics (Ta=25°C)			Direct Mount	Fig. No.	
				I _F =10mA (V)		I _v (mcd)	Conditions I _F (mA)	PeakWave-length λ _P (mm)			Chip Material
				typ	max						
5φ cylindrical type	SEL1111R	Deep red	Diffused red	2.0	2.5	1.4	10	700	GaP	×	
	SEL1211R	Red	Diffused red	1.9	2.5	12	20	630	GaAsP	×	
	SEL1811D	Amber	Diffused orange	1.9	2.5	8.0	10	610	GaAsP	×	
	SEL1911D	Orange	Diffused orange	1.9	2.5	8.0	10	587	GaAsP	×	
	SEL1711Y	Yellow	Diffused yellow	2.0	2.5	13	10	570	GaP	×	
	SEL1411G	Green	Diffused green	2.0	2.5	30	20	560	GaP	×	
4.6x5.8φ Egg-shaped type	SELU1253CMKT	Ultra-high-intensity red	Clear	2.0	2.5	200	2.0	635	AlGaInP	×	
	SEL1453CEMKT	Green	Transparent green	2.0	2.5	140	2.0	560	GaP	×	
4φ round type	SEL4110S	Deep red	Transparent red	2.0	2.5	2.4	5	700	GaP	×	
	SEL4110R		Diffused red							1.7	×
	SEL4210S	Red	Transparent red	1.9	2.5	30	20	630	GaAsP	×	
	SEL4210R		Diffused red							17	×
	SEL4810A	Amber	Transparent orange	1.9	2.5	20	10	610	GaAsP	×	
	SEL4810D		Diffused orange							15	×
	SEL4910A	Orange	Transparent orange	1.9	2.5	26	10	587	GaAsP	×	
	SEL4910D		Diffused orange							16	×
	SEL4710K	Yellow	Transparent yellow	2.0	2.5	36	10	570	GaP	×	
	SEL4710Y		Diffused yellow							14	×
	SEL4410E	Green	Transparent green	2.0	2.5	87	20	560	GaP	×	
	SEL4410G		Diffused green							34	×
	SEL4510C	Pure Green	Clear	2.0	2.5	45	20	555	GaP	×	
	SEL4114S	Deep red	Transparent red	2.0	2.5	3.8	10	700	GaP	○	
	SEL4114R		Diffused red							2.8	○
SEL4214S	Red	Transparent red	1.9	2.5	40	20	630	GaAsP	○		
SEL4214R		Diffused red							24	○	
SEL4814A	Amber	Transparent orange	1.9	2.5	20	10	610	GaAsP	○		
SEL4814D		Diffused orange							15	○	
SEL4914A	Orange	Transparent orange	1.9	2.5	26	10	587	GaAsP	○		
SEL4914D		Diffused orange							11	○	
SEL4714K	Yellow	Transparent yellow	2.0	2.5	38	10	570	GaP	○		
SEL4714Y		Diffused yellow							27	○	
SEL4414E	Green	Transparent green	2.0	2.5	69	20	560	GaP	○		
SEL4414G		Diffused green							48	○	
SEL4514C	Pure Green	Clear	2.0	2.5	26	20	555	GaP	○		
3φ round type	SEL6110S	Deep red	Transparent red	2.0	2.5	3.9	10	700	GaP	○	
	SEL6110R		Diffused red							2.6	○
	SEL6210S	Red	Transparent red	1.9	2.5	41	20	630	GaAsP	○	
	SEL6210R		Diffused red							18	○
	SEL6810A	Amber	Transparent orange	1.9	2.5	22	10	610	GaAsP	○	
	SEL6810D		Diffused orange							9.6	○
	SEL6910A	Orange	Transparent orange	1.9	2.5	22	10	587	GaAsP	○	
	SEL6910D		Diffused orange							11	○
	SEL6710K	Yellow	Transparent yellow	2.0	2.5	37	10	570	GaP	○	
	SEL6710Y		Diffused yellow							11	○
SEL6410E	Green	Transparent green	2.0	2.5	90	20	560	GaP	○		
SEL6410G		Diffused green							30	○	
SEL6510C	Pure Green	Clear	2.0	2.5	42	20	555	GaP	○		
SEL6510G		Diffused green							9.6	○	

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V _F		Electro-Optical Characteristics (Ta=25°C)				Direct Mount	Fig. No.
				I _F =10mA (V)		Intensity		Peak Wave-length λ _P (mm)	Chip Material		
				typ	max	I _V (mcd)	Conditions I _F (mA)				
3φ round type	SEL6214S	Red	Transparent red	1.9	2.5	18	20	630	GaAsP	○	11
	SEL6814A	Amber	Transparent orange	1.9	2.5	9.0	10	610	GaAsP	○	
	SELS6B14C	Ultra-high-intensity light amber	Clear	2.0	2.5	120	20	600	AlGaN	○	
	SEL6914A	Orange	Transparent orange	1.9	2.5	8.0	10	587	GaAsP	○	
	SEL6914W		Diffused white			5.0					
	SEL6714K	Yellow	Transparent yellow	2.0	2.5	66	20	570	GaP	○	
	SEL6714W		Diffused white			30					
	SEL6414E	Green	Transparent green	2.0	2.5	42	20	560	GaP	○	
	SEL6414E-TG	Deep green	Transparent green			18					
	SEL6514C	Pure green	Clear	2.0	2.5	12	20	555	GaP	○	
	SEL6215S	Red	Transparent red	1.9	2.5	45	20	630	GaAsP	○	
	SEL6915A	Orange	Transparent orange	1.9	2.5	60	20	587	GaAsP	○	
	SEL6715C	Yellow	Clear	2.0	2.5	90	20	570	GaP	○	
	SEL6415E	Green	Transparent green	2.0	2.5	81	20	560	GaP	○	
SEL6515C	Pure green	Clear	2.0	2.5	44	20	555	GaP	○		
SEL2110S	Deep red	Transparent red	2.0	2.5	4	10	700	GaP	×		
SEL2110R		Diffused red			1.8						
SEL2110W		Diffused white			1.8						
SEL2610C	High-intensity red	Clear	1.75	2.2	350	20	660	GaAlAs	×		
SEL2210S	Red	Transparent red	1.9	2.5	40	20	630	GaAsP	×		
SEL2210R		Diffused red			15						
SEL2210W		Diffused white			15						
SEL2810A	Amber	Transparent orange	1.9	2.5	22	10	610	GaAsP	×		
SEL2810D		Diffused orange			9.0						
SEL2910A	Orange	Transparent orange	1.9	2.5	16	10	587	GaAsP	×		
SEL2910D		Diffused orange			8.0						
SELU2710C	Ultra-high-intensity yellow	Clear	2.0	2.5	270	20	572	AlGaN	×		
SEL2710K	Yellow	Transparent yellow	2.0	2.5	40	10	570	GaP	×		
SEL2710Y		Diffused yellow			14						
SEL2410E	Green	Transparent green	2.0	2.5	77	20	560	GaP	×		
SEL2410G		Diffused green			20						
SEL2510C	Pure green	Clear	2.0	2.5	43	20	555	GaP	×		
SEL2510G		Diffused green			8.2						
SELU2D10C	Ultra-high-intensity pure green	Clear	3.3	4.0	1200	20	525	InGaN	×		
SELU2E10C	Ultra-high-intensity blue	Clear	3.3	4.0	400	20	470	InGaN	×		
SEL2E10C	Blue	Clear	3.8	4.8	60	20	430	GaN	×		
SEL2215S	Red	Transparent red	1.9	2.5	45	20	630	GaAsP	×		
SEL2215R		Diffused red			38						
SEL2815A	Amber	Transparent orange	1.9	2.5	80	10	610	GaAsP	×		
SEL2815D		Diffused orange			60						
SEL2915A	Orange	Transparent orange	1.9	2.5	81	10	587	GaAsP	×		
SEL2915D		Diffused orange			53						
SEL2715K	Yellow	Transparent yellow	2.0	2.5	130	10	570	GaP	×		
SEL2715Y		Diffused yellow			110						
SEL2415E	Green	Transparent green	2.0	2.5	110	20	560	GaP	×		
SEL2415G		Diffused green			72						
SEL2515C	Pure green	Clear	2.0	2.5	52	20	555	GaP	×		
3φ cylindrical type	SEL2111R	Deep red	Diffused red	2.0	2.5	0.7	10	700	GaP	×	
	SEL2911D	Orange	Diffused orange	1.9	2.5	3.3	10	587	GaAsP	×	
	SEL2411G	Green	Diffused green	2.0	2.5	18	20	560	GaP	×	
2φ round type	SEL4117R	Deep red	Diffused red	2.0	2.5	1.1	10	700	GaP	×	
	SEL4817D	Amber	Diffused orange	1.9	2.5	7.5	10	610	GaAsP	×	
	SEL4917D	Orange	Diffused orange	1.9	2.5	7.5	10	587	GaAsP	×	
	SEL4717Y	Yellow	Diffused yellow	2.0	2.5	14	20	570	GaP	×	
	SEL4417G	Green	Diffused green	2.0	2.5	16	20	560	GaP	×	

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V _F		Electro-Optical Characteristics (Ta=25°C)				Direct Mount	Fig. No.
				I _F =10mA (V)		Intensity		Peak Wave-length λ _P (mm)	Chip Material		
				typ	max	I _V (mcd)	Conditions I _F (mA)				
Inverted-cone type for surface illumination	SEL1213C	Red	Transparent red	1.9	2.5	7.0	20	630	GaAsP	×	17
	SEL1813A	Amber	Transparent orange	1.9	2.5	8.0	20	610	GaAsP	×	
	SEL1913K	Orange	Transparent light orange	1.9	2.5	8.0	20	587	GaAsP	×	
	SEL1713K	Yellow	Transparent yellow	2.0	2.5	15	20	570	GaP	×	
	SEL1413E	Green	Transparent green	2.0	2.5	12	20	560	GaP	×	
	SEL1513E	Pure green	Transparent light green	2.0	2.5	5.0	20	555	GaP	×	
	SEL6413E	Green	Transparent green	2.0	2.5	14	20	560	GaP	○	
	SEL6513C	Pure green	Clear	2.0	2.5	5.0	20	555	GaP	○	
	SEL2613CS-S	High-intensity red	Transparent light red	1.7	2.5	80	20	660	GaAlAs	×	
	SEL2213C	Red	Clear	1.9	2.5	7.0	20	630	GaAsP	×	
	SEL2813A	Amber	Transparent orange	1.9	2.5	8.0	20	610	GaAsP	×	
	SEL2913K	Orange	Transparent light orange	1.9	2.5	8.0	20	587	GaAsP	×	
	SEL2713K	Yellow	Transparent yellow	2.0	2.5	17	20	570	GaP	×	
	SEL2413E	Green	Transparent green	2.0	2.5	14	20	560	GaP	×	
SEL2413G	Diffused green		12								
SEL2513E	Pure green	Transparent green	2.0	2.5	5.0	20	555	GaP	×		
3x3 rectangular type	SEL1121R	Deep red	Diffused red	2.0	2.5	0.9	10	700	GaP	×	
	SEL1821D	Amber	Diffused orange	1.9	2.5	3.0	10	610	GaAsP	×	
	SEL1921D	Orange	Diffused orange	1.9	2.5	3.8	10	587	GaAsP	×	
	SEL1721Y	Yellow	Diffused yellow	2.0	2.5	7.0	10	570	GaP	×	
	SEL1421G	Green	Diffused green	2.0	2.5	12	20	560	GaP	×	
	SEL1222R	Red	Diffused red	1.9	2.5	9.0	20	630	GaAsP	×	
2.5x5 rectangular type	SEL1822D	Amber	Diffused orange	1.9	2.5	4.8	10	610	GaAsP	×	
	SEL1922D	Orange	Diffused orange	1.9	2.5	4.5	10	587	GaAsP	×	
	SEL1722Y	Yellow	Diffused yellow	2.0	2.5	7.8	10	570	GaP	×	
	SEL1722K		Transparent yellow			12					
	SEL1422G	Green	Diffused green	2.0	2.5	7.2	20	560	GaP	×	
	1x5 rectangular type	SEL1120R	Deep red	Diffused red	2.0	2.5	0.9	10	700	GaP	×
SEL1220R		Red	Diffused red	1.9	2.5	4.8	20	630	GaAsP	×	
SEL1820D		Amber	Diffused orange	1.9	2.5	3.0	10	610	GaAsP	×	
SEL1920D		Orange	Diffused orange	1.9	2.5	3.8	10	587	GaAsP	×	
SEL1720Y		Yellow	Diffused yellow	2.0	2.5	7.0	10	570	GaP	×	
SEL1420G		Green	Diffused green	2.0	2.5	11	20	560	GaP	×	
SEL1124R		Deep red	Diffused red	2.0	2.5	0.5	10	700	GaP	×	
SEL1824D		Amber	Diffused orange	1.9	2.5	4.0	10	610	GaAsP	×	
SEL1924D		Orange	Diffused orange	1.9	2.5	3.0	10	587	GaAsP	×	
SEL1724Y		Yellow	Diffused yellow	2.0	2.5	6.0	10	570	GaP	×	
SEL1424G	Green	Diffused green	2.0	2.5	15	20	560	GaP	×		
2.5x5 rectangular type	SEL4225C	Red	Clear	1.9	.5	12	20	630	GaAsP	×	
	SEL4225R		Diffused red			5.4					
	SEL4825A	Amber	Transparent orange	1.9	2.5	5.4	10	610	GaAsP	×	
	SEL4825D		Diffused orange			4.0					
	SEL4925A	Orange	Transparent orange	1.9	2.5	4.5	10	587	GaAsP	×	
	SEL4925D		Diffused orange			4.0					
	SEL4725K	Yellow	Transparent yellow	2.0	2.5	13	10	570	GaP	×	
	SEL4725Y		Diffused yellow			5.0					
	SEL4425E	Green	Transparent green	2.0	2.5	20	20	560	GaP	×	
	SEL4425G		Diffused green			10					
SEL4525C	Pure green	Clear	2.0	2.5	6.6	20	555	GaP	×		
2x4 rectangular type	SEL4226C	Red	Clear	1.9	2.5	12	20	630	GaAsP	○	
	SEL4226R		Diffused red			10					
	SEL4826A	Amber	Transparent orange	1.9	2.5	5.4	10	610	GaAsP	○	
	SEL4826D		Diffused orange			4.5					
	SEL4926A	Orange	Transparent orange	1.9	2.5	6.0	10	587	GaAsP	○	
	SEL4926D		Diffused orange			4.5					
	SEL4726K	Yellow	Transparent yellow	2.0	2.5	14	10	570	GaP	○	
	SEL4726Y		Diffused yellow			8.6					
	SEL4426E	Green	Transparent green	2.0	2.5	20	20	560	GaP	○	
	SEL4426G		Diffused green			14					

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V _F		Electro-Optical Characteristics (T _a =25°C)				Direct Mount	Fig. No.
				I _F =10mA (V)		Intensity		PeakWave-length λ _P (mm)	Chip Material		
				typ	max	typ	Conditions I _F (mA)				
								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	○	27
	SEL6927A	Orange	Transparent orange	1.9	2.5	10	10	587	GaAsP	○	
	SEL6427EP	Green	Transparent green	2.0	2.5	26	20	560	GaP	○	
3.1φ bow-shaped type	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	×	
	SEL4428E	Green	Transparent green	2.0	2.5	63	20	560	GaP	×	
	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	○	
	SEL4729KH	Yellow	Transparent yellow	2.0	2.5	60	10	570	GaP	○	
	SEL4429E	Green	Transparent green	2.0	2.5	60	20	560	GaP	○	
5mm pitch lead rectangular type	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	○	
	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	○	
5mm pitch lead 3φ lens type	SELU5E20C	Ultra-high-intensity blue	Clear	3.3	4.0	60	10	470	InGaN	○	31
	SEL5221S	Red	Transparent red	1.9	2.5	35	20	630	GaAsP	○	
	SEL5821A	Amber	Transparent orange	1.9	2.5	60	20	610	GaAsP	○	
	SEL5921A	Orange	Transparent orange	1.9	2.5	60	20	587	GaAsP	○	
	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	○		

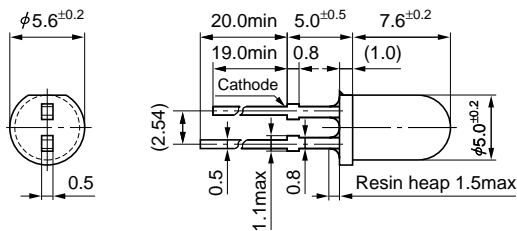
Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V _F		Electro-Optical Characteristics (T _a =25°C)				Direct Mount	Fig. No.
				I _F =10mA (V)		Intensity		PeakWave-length λ _P (mm)	Chip Material		
				typ	max	typ	Conditions I _F (mA)				
								typ	max		
5mm pitch lead bow type	SELS5223C	Ultra-high-intensity red	Clear	2.0	2.5	100	20	635	AlGaInP	○	32
	SEL5223S	Red	Transparent red	1.9	2.5	25	20	630	GaAsP	○	
	SELS5823C	Ultra-high-intensity amber	Clear	2.0	2.5	130	20	615	AlGaInP	○	
	SELU5823C		Clear			185				○	
	SEL5823A	Amber	Transparent orange	1.9	2.5	35	20	610	GaAsP	○	
	SELS5B23C	Ultra-high-intensity light amber	Clear	2.0	2.5	135	20	600	AlGaInP	○	
	SELS5923C	Ultra-high-intensity orange	Clear	2.0	2.5	145	20	590	AlGaInP	○	
	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	AlGaInP	○	
	SEL5723C	Yellow	Clear	2.0	2.5	60	20	570	GaP	○	
	SEL5423E	Green	Transparent green	2.0	2.5	40	20	560	GaP	○	
	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	○	
	5mm pitch lead egg-shaped type	SEL5255S	Red	Transparent red	1.9	2.5	35	20	630	GaAsP	
SEL5955A		Orange	Transparent orange	1.9	2.5	25	20	587	GaAsP	○	
SEL5755C		Yellow	Clear	2.0	2.5	140	20	570	GaP	○	

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

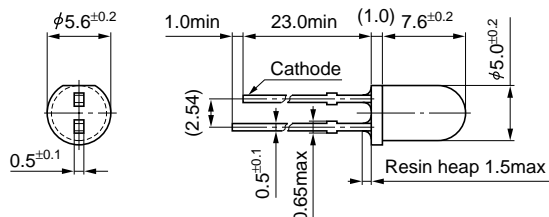
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(General tolerance: ± 0.3)

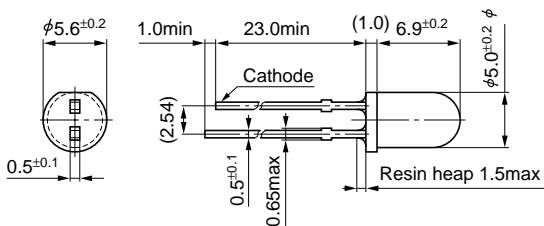
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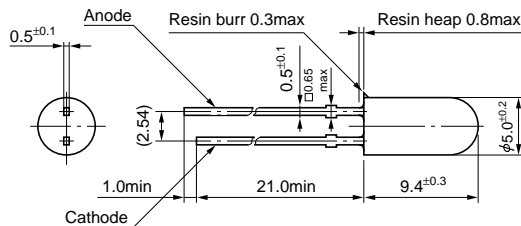
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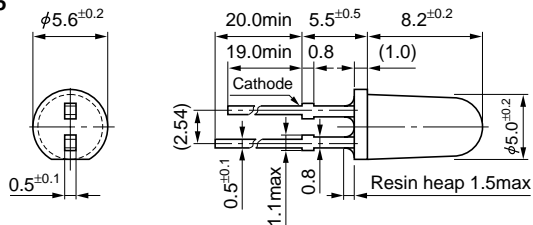
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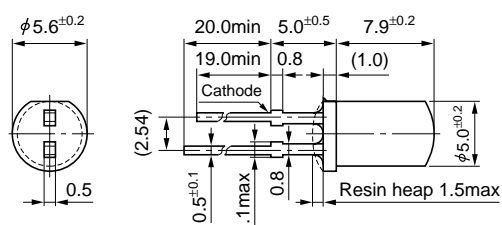
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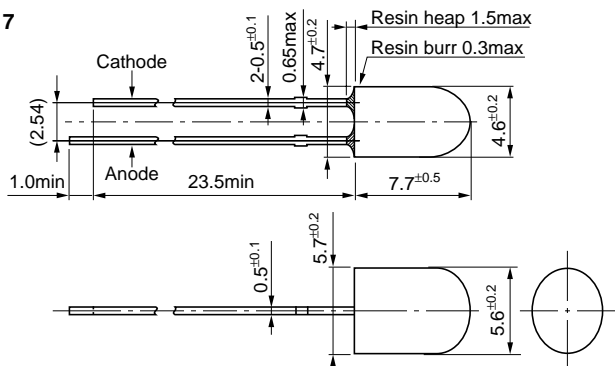
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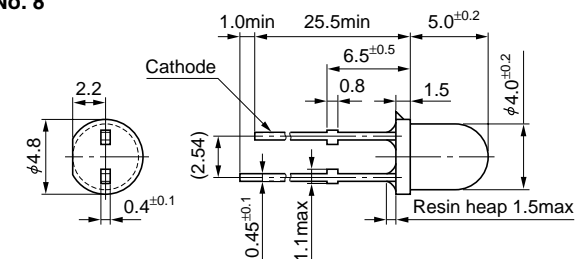
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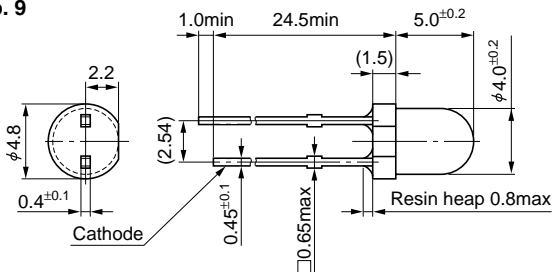
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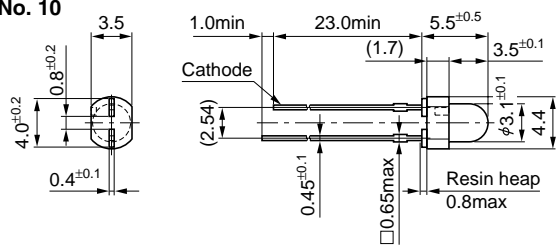
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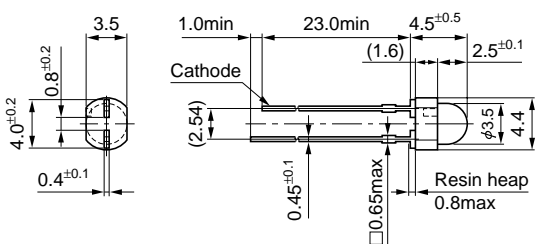
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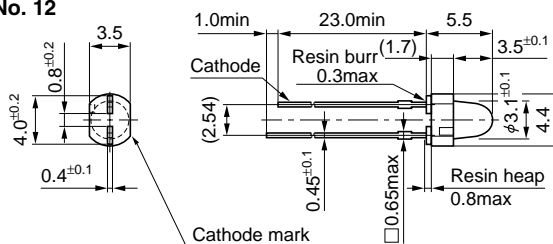
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• No. 11



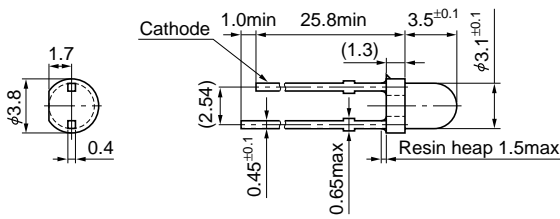
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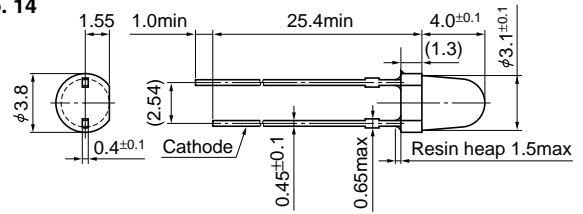
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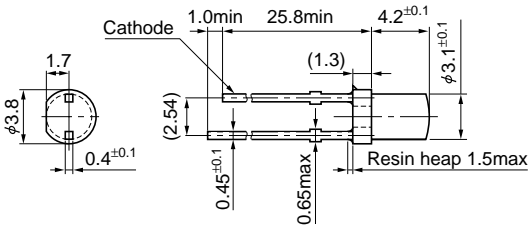
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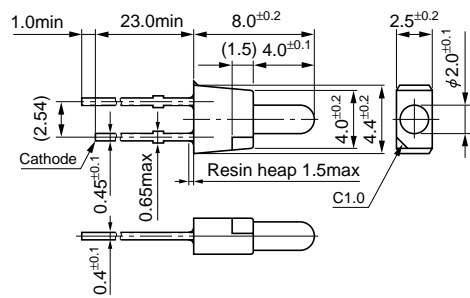
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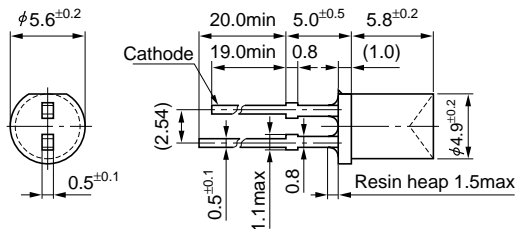
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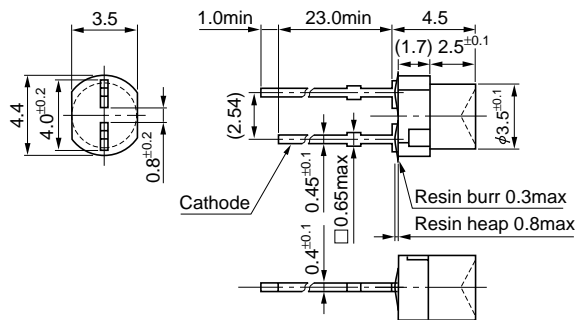
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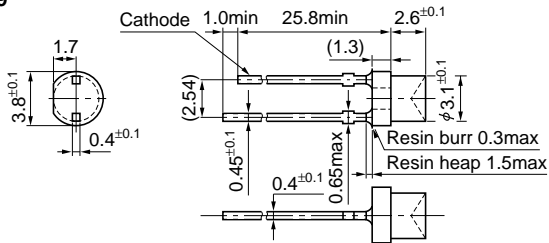
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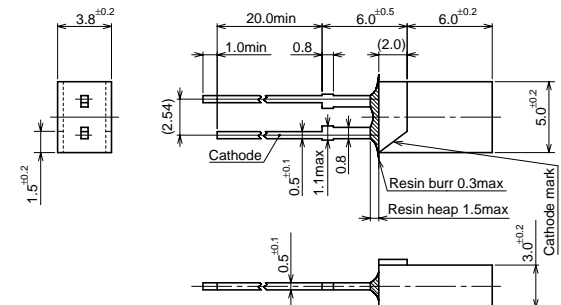
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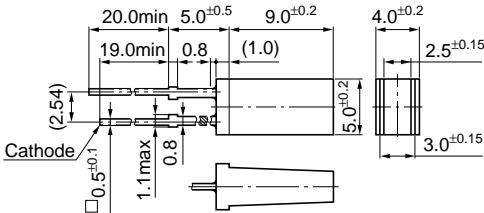
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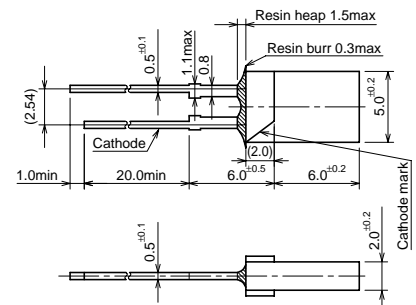
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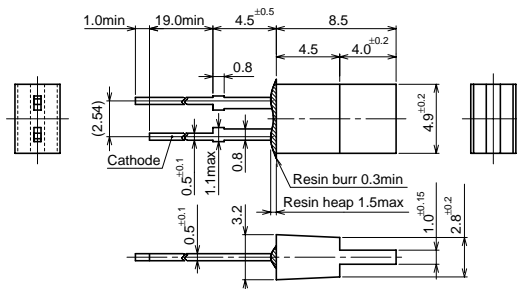
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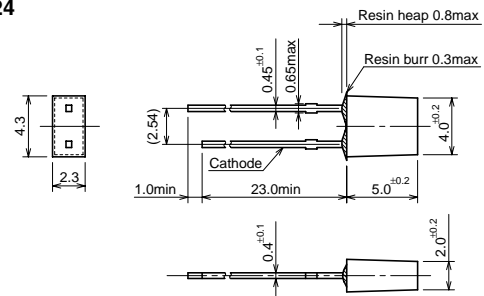
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• No. 23



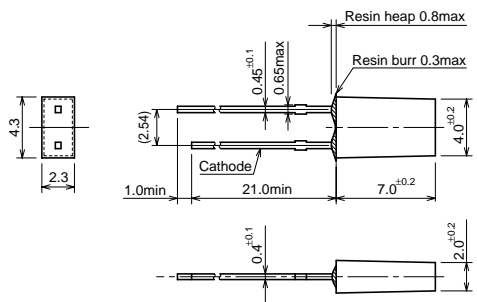
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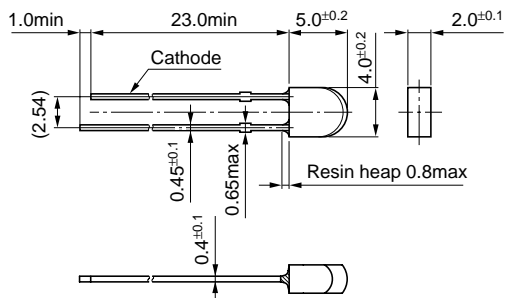
External Dimensions (unit: mm)

(General tolerance: ± 0.3)

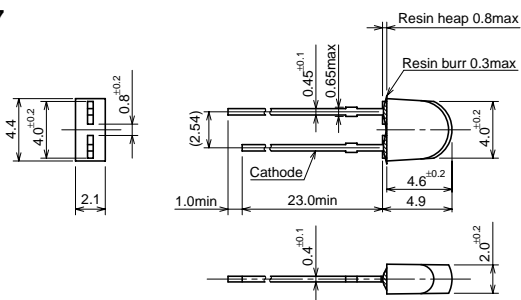
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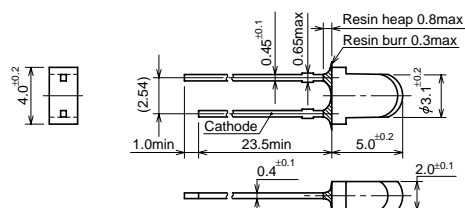
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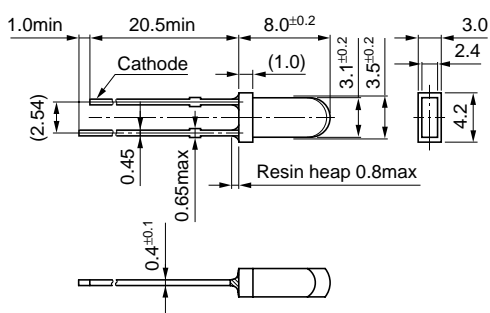
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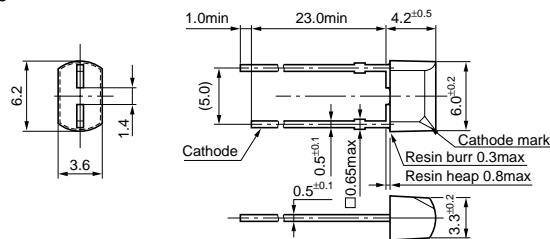
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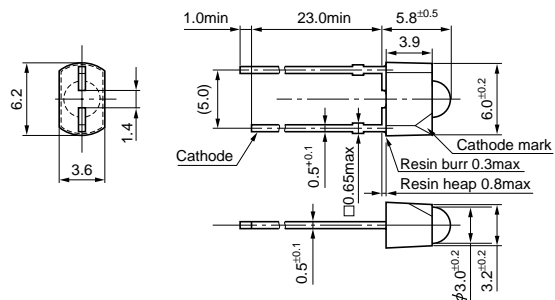
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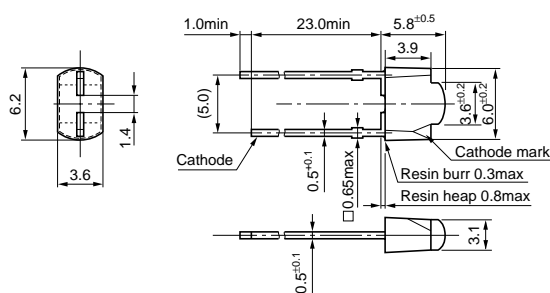
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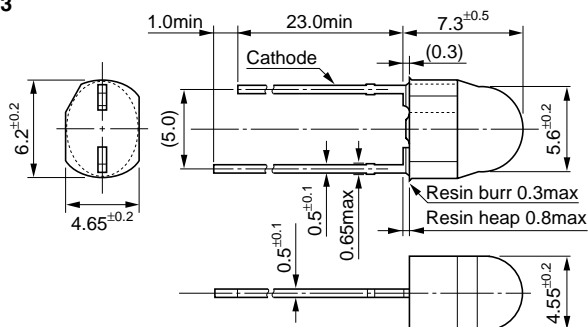
• No. 31



• No. 32



• No. 33



5-1-2 Bicolor Lamps

Absolute Maximum Ratings

(Ta=25°C)

Parameter	Unit	Ratings	Conditions
I _F	mA	30	
ΔI _F	mA/°C	-0.45	Above 25°C
I _{FP}	mA	100	f=1kHz, tw≤100μs
V _R	V	4	
Top	°C	-30~+85	
Tstg	°C	-30~+100	

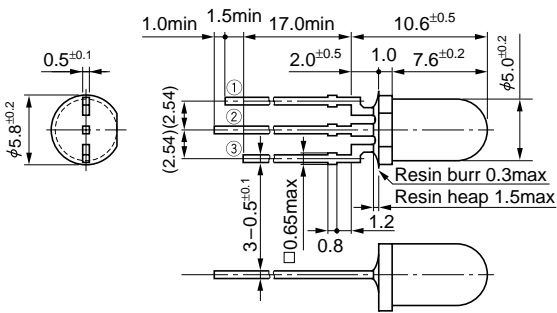
Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V _F		Electro-Optical Characteristics (Ta=25°C)			Common Terminal	Direct Mount	Fig. No.
				I _F =10mA (V)		I _v (mcd)	Conditions I _F (mA)	Peak Wave-length λ _P (nm)			
				typ	max						
5φ round type	SML11516C	Deep red	Clear	2.0	2.5	15	20	700	Cathode	×	34
		Pure green		2.0	2.5	50	20	555			
	SML1216C	Red	Clear	1.9	2.5	65	20	630	Cathode	×	
		Green		2.0	2.5	90	20	560			
	SML1216W	Red	Diffused white	1.9	2.5	60	20	630	Cathode	×	
		Green		2.0	2.5	60	20	560			
	SML1516W	Deep red	Diffused white	2.0	2.5	6.0	20	700	Cathode	×	
		Pure green		2.0	2.5	20	20	555			
	SML16716CN	High-intensity red	Clear	1.7	2.2	100	20	660	Anode	×	
		Yellow		2.4	3.0	140	20	570			
	SML16716WN	High-intensity red	Diffused white	1.7	2.2	50	20	660	Anode	×	
		Yellow		2.4	3.0	70	20	570			
	SML1816W	Amber	Diffused white	1.9	2.5	50	20	610	Cathode	×	
		Green		2.0	2.5	60	20	560			
SML19416W	Orange	Diffused white	1.9	2.5	45	20	587	Cathode	×		
	Green		2.0	2.5	60	20	560				
SML12451W	Red	Diffused white	1.9	2.5	40	20	630	Cathode	×		
	Green		2.0	2.5	60	20	560				
SML16751WN	High-intensity red	Diffused white	1.7	2.2	50	20	660	Anode	×		
	Yellow		2.4	3.0	60	20	570				
3.3x6 rectangular type 2.5x5 rectangular type	SML12460C	Red	Clear	1.9	2.5	10	20	630	Cathode	×	36
		Green		2.0	2.5	25	20	560			
	SML16760CN	High-intensity red	Clear	1.7	2.2	30	20	660	Anode	×	
SML19460C	Orange	Clear	1.9	2.5	15	20	587	Cathode	×		
	Green		2.0	2.5	25	20	560				
SML72420C	Red	Clear	1.9	2.5	15	20	630	Cathode	○		
	Green		2.0	2.5	20	20	560				
SML78420C	Amber	Clear	1.9	2.5	10	20	610	Cathode	○		
	Green		2.0	2.5	20	20	560				
SML79420C	Orange	Clear	1.9	2.5	10	20	587	Cathode	○		
	Green		2.0	2.5	20	20	560				
3.3x6 bow-shaped type	SML72423C	Red	Clear	1.9	2.5	25	20	630	Cathode	○	38
		Green		2.0	2.5	35	20	560			
	SML72923C	Red	Clear	1.9	2.5	25	20	630	Cathode	○	
		Orange		1.9	2.5	25	20	587			
	SML78423C	Amber	Clear	1.9	2.5	25	20	610	Cathode	○	
		Green		2.0	2.5	35	20	560			
SML79423C	Orange	Clear	1.9	2.5	25	20	587	Cathode	○		
	Green		2.0	2.5	35	20	560				
SMLS79723C	Ultra-high-intensity orange	Clear	2.0	2.5	150	20	590	Cathode	○		
Yellow	2.0		2.5	40	20	570					

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V _F		Electro-Optical Characteristics (Ta=25°C)			Common Terminal	Direct Mount	Fig. No.
				I _F =10mA (V)		I _v (mcd)	Conditions I _F (mA)	Peak Wave-length λ _P (nm)			
				typ	max						
Egg-shaped type	SML72755C	Red	Clear	1.9	2.5	45	20	630	Cathode	○	39
		Yellow		2.0	2.5	75	20	570			
	SML79255C	Orange	Clear	1.9	2.5	40	20	587	Cathode	○	
		Red		2.0	2.5	45	20	630			
	SML79455C	Orange	Clear	1.9	2.5	45	20	587	Cathode	○	
		Green		2.0	2.5	75	20	560			
	SML76755WN	High-intensity red	Diffused white	1.7	2.2	50	20	660	Anode	○	
		Yellow		2.4	3.0	50	20	570			
	SMLU72755C	Ultra-high-intensity red	Clear	2.0	2.5	160	20	635	Cathode	○	
		Ultra-high-intensity yellow		2.0	2.5	170	20	572			
SMLU78755C	Ultra-high-intensity amber	Clear	2.0	2.5	280	20	615	Cathode	○		
	Ultra-high-intensity yellow		2.0	2.5	170	20	572				

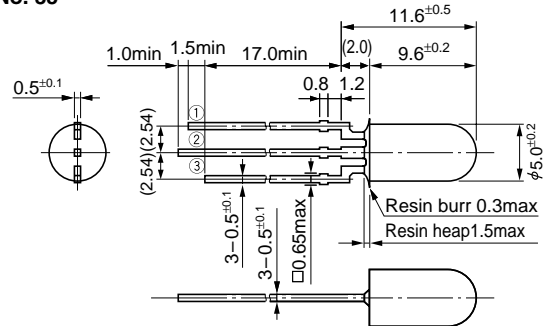
External Dimensions (unit: mm)

(General tolerance: ± 0.3)

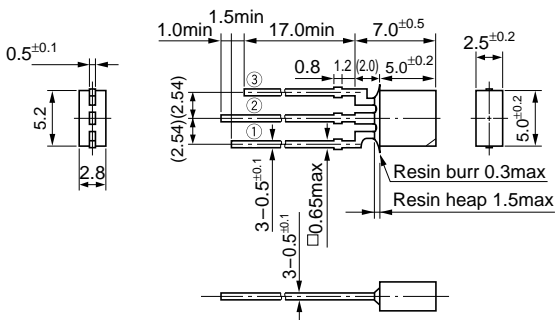
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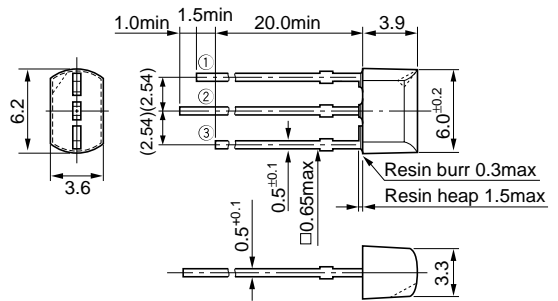
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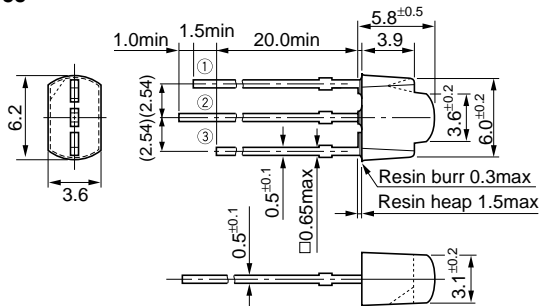
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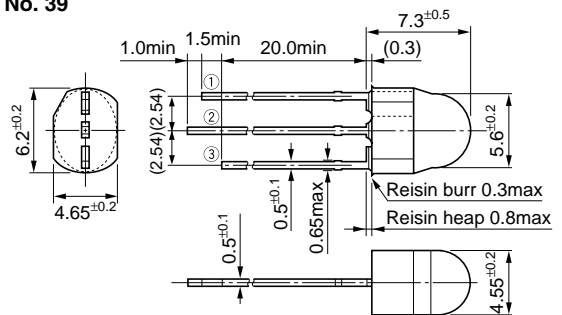
• No. 37



• No. 38



• No. 39



5-2-1 Single-color Surface mount

■ Absolute Maximum Ratings

(Ta=25°C)

Parameter	Unit	Ratings					Conditions
		GaP	GaAsP	GaAlAs	AlGaN/P	InGaN	
I _F	mA	30					
ΔI _F	mA/°C	-0.45					Above 25°C
I _{FP}	mA	70					f=1kHz, tw≤100μs
V _R	V	4			5		
Top	°C	-30~+85			-25~+85		
Tstg	°C	-30~+100					

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V _F		Electro-Optical Characteristics (Ta=25°C)			Chip Material	Fig. No.
				I _F =10mA (V)		I _v (mcd)	Conditions I _F (mA)	Peak Wave-length λ _P (mm)		
				typ	max					
Flat lens type	SEC1101C	Deep red	Clear	2.0	2.5	1.5	20	700	GaP	40
	SEC1601C	High-intensity red	Clear	1.7	2.2	100	20	660	GaAlAs	
	SEC1201C	Red	Clear	1.9	2.5	10	20	630	GaAsP	
	SEC1801C	Amber	Clear	1.9	2.5	16	20	610	GaAsP	
	SEC1901C	Orange	Clear	1.9	2.5	13	20	587	GaAsP	
	SEC1701C-YG	Yellow	Clear	2.0	2.5	25	20	570	GaP	
	SEC1401C	Green	Clear	2.0	2.5	22	20	560	GaP	
	SEC1401E-TG	Deep green	Transparent green	2.0	2.5	11	20	558	GaP	
	SEC1501C	Pure green	Clear	2.0	2.5	8.0	20	555	GaP	
	SECU1D01C	Ultra-high-intensity pure green	Clear	3.3	4.0	150	20	525	InGaN	
	SECU1E01C	Ultra-high-intensity blue	Clear	3.3	4.0	50	20	470	InGaN	
	SEC1E01C	Blue	Clear	3.9	4.8	6.0	20	430	GaN	
Inner lens type	SEC1603C	High-intensity red	Clear	1.7	2.2	150	20	660	GaAlAs	41
	SECS1203C	Ultra-high-intensity red	Clear	1.9	2.5	100	20	635	AlGaN/P	
	SEC1203C	Red	Clear	1.9	2.5	15	20	630	GaAsP	
	SECS1803C	Ultra-high-intensity amber	Clear	1.9	2.5	10	3	615	AlGaN/P	
	SEC1803C	Amber	Clear	1.9	2.5	20	20	610	GaAsP	
	SECS1903C	Ultra-high-intensity orange	Clear	1.9	2.5	10	3	590	AlGaN/P	
	SEC1903C	Orange	Clear	1.9	2.5	15	20	587	GaAsP	
	SEC1703C	Yellow	Clear	2.0	2.5	35	20	570	GaP	
	SEC1403C	Green	Clear	2.0	2.5	33	20	560	GaP	
	SEC1403E-TG	Deep green	Transparent green	2.0	2.5	15	20	558	GaP	
SEC1503C	Pure green	Clear	2.0	2.5	10	20	555	GaP		
Miniature (t=0.55mm)	SECU1E05C	Blue	Clear	3.4	4.0	40	20	468	InGaN	42
	SECU1J05C	Blue-green	Clear	3.3	4.0	210	20	500	InGaN	
	SECU1D05C	Pure green	Clear	3.3	4.0	280	20	525	InGaN	
	SECU1905C	Orange	Clear	1.9	1.9	80	20	591	AlGaN/P	
	SECU1805C	Amber	Clear	1.9	1.9	100	20	611	AlGaN/P	
	SECU1205C	Red	Clear	1.9	1.9	90	20	632	AlGaN/P	
Miniature (t=0.7mm)	SEC1E07C	Blue	Clear	4.0	4.8	10	20	430	GaN	43
	SECS1E07C	Blue	Clear	3.6	4.3	30	20	468	InGaN	
	SECS1L07C	Aqua-blue	Clear	3.6	4.3	90	20	488	InGaN	
	SECS1D07C	Pure green	Clear	3.6	4.3	140	20	523	InGaN	
	SECU1407C	Green	Clear	2.2	2.5	15	20	560	AlGaN/P	
	SECU1707C	Yellow	Clear	2.2	2.5	30	20	572	AlGaN/P	
SECS1B07C	Light amber	Clear	1.9	2.5	90	20	600	AlGaN/P		

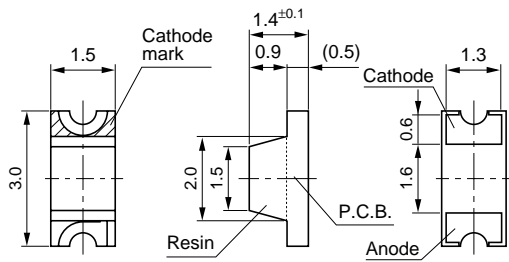
5-2-2 Bicolor Surface mount

Shape	Part No.	Emitting Color	Lens Color	Electro-Optical Characteristics (Ta=25°C)					Fig. No.
				Forward Voltage V _F (V)		Intensity I _v (mcd)	Conditions I _F (mA)	Peak Wave-length λ _P (mm)	
				typ	max				
Flat lens type	SEC2422C	Red	Clear	1.9	1.9	2.5	20	630	44
		Green		2.0	2.0	2.5	20	560	
	SEC2442C	Green	Clear	2.0	2.0	2.5	20	560	
		Green		2.0	2.0	2.5	20	560	
	SEC2462C	High-intensity red	Clear	1.7	1.7	2.2	20	660	
		Green		2.0	2.0	2.5	20	560	
	SEC2492C	Orange	Clear	1.9	1.9	2.5	20	587	
		Green		2.0	2.0	2.5	20	560	
	SEC2552C	Pure green	Clear	2.0	2.0	2.5	20	555	
		Pure green		2.0	2.0	2.5	20	555	
SEC2592C	Orange	Clear	1.9	1.9	2.5	20	587		
	Pure green		2.0	2.0	2.5	20	555		
SEC2762C-YG	High-intensity red	Clear	1.7	1.7	2.2	20	660		
	Yellow		2.0	2.0	2.5	20	570		
Inner lens type	SEC2484C	Amber	Clear	1.9	1.9	2.5	20	610	45
		Green		2.0	2.0	2.5	20	560	
	SEC2554C	Pure green	Clear	2.0	2.0	2.5	20	555	
		Pure green		2.0	2.0	2.5	20	555	
	SEC2494C	Orange	Clear	1.9	1.9	2.5	20	587	
		Green		2.0	2.0	2.5	20	560	
	SEC2764C	High-intensity red	Clear	1.7	1.7	2.2	20	660	
		Yellow		2.0	2.0	2.5	20	570	
SEC2774C	Yellow	Clear	2.0	2.0	2.5	20	570		
	Yellow		2.0	2.0	2.5	20	570		

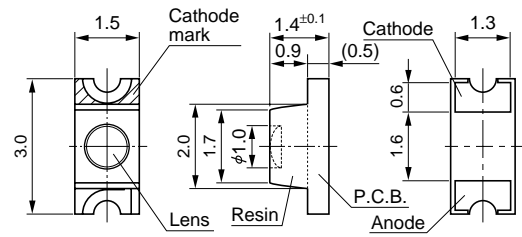
External Dimensions (unit: mm)

(General tolerance: ± 0.3)

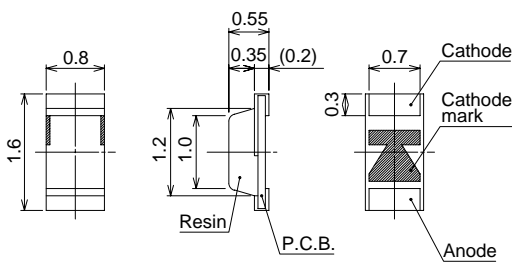
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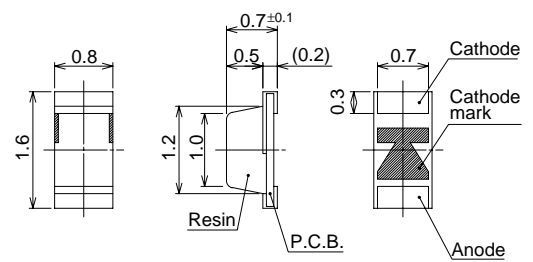
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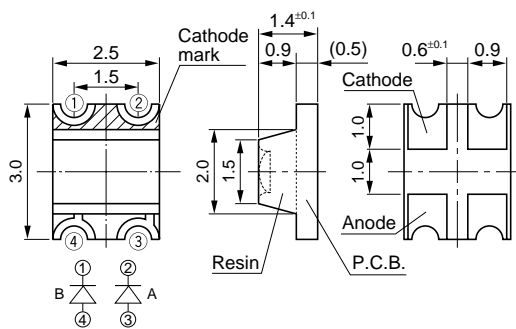
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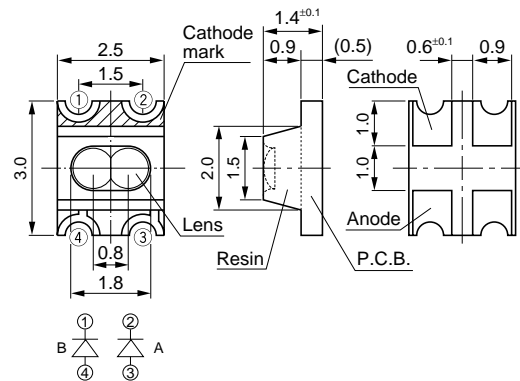
• No. 43



• No. 44



• No. 45



Absolute Maximum Ratings

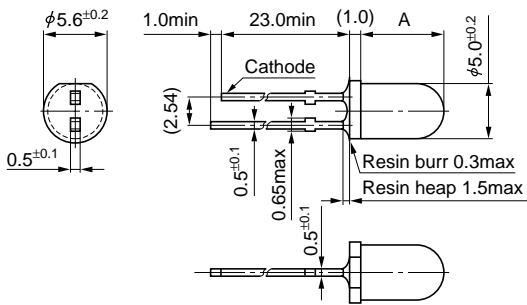
Parameter	Unit	Ratings	Conditions
I _F	mA	100	
ΔI _F	mA/°C	-1.33	Above 25°C
I _{FP}	mA	1000	f=1kHz, tw≤10μs
V _R	V	5	
T _{op}	°C	-30~+85	
T _{stg}	°C	-30~+100	

Shape	Part No.	Emitting Color	Forward Voltage V _F		Optical Power P _e		Electro-Optical Characteristics (T _a =25°C)		Direct Mount	Fig. No.
			I _F =10mA (V)	typ	max	typ	Conditions	Peak Wave-length λ _P (mm)		
5φ round type	SID1010CM	Clear	1.3	1.5	130	(Constant voltage) V _{CC} =3V, R=2.2Ω	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		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	×	
	SID307BR	Transparent dark navy blue	1.3	1.5	200		940	GaAs	×	
SID1G307C	Clear	1.5	1.8	50	850	GaAlAs	×	47		
3φ round type	SID2010C	Clear	1.3	1.5	7.0	I _F =50mA	940		GaAs	×
	SID2K10C	Clear	1.3	1.5	14		940	GaAs	×	

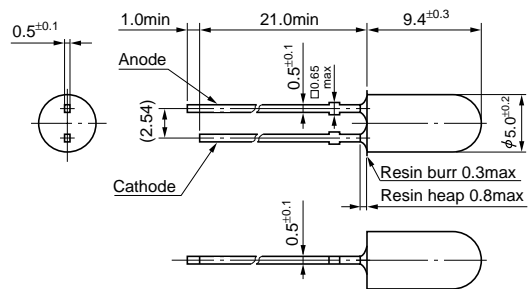
External Dimensions (unit: mm)

(General tolerance: ±0.3)

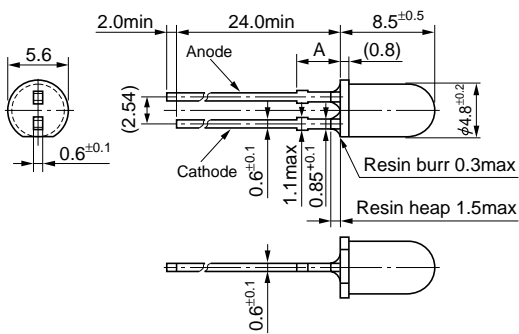
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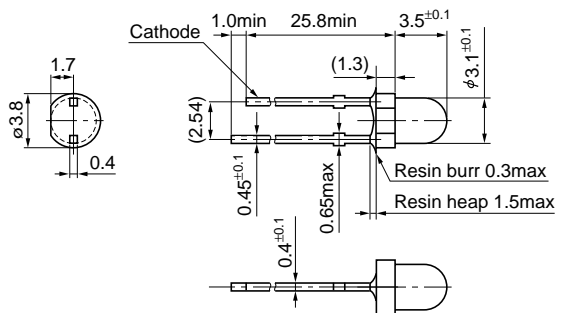
• No. 45



• No. 46



• No. 47



(unit: mm)

Dimension A

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