



SMD-CODE

DATABOOK

SMD-CODES

ACTIVE ELECTRONICS COMPONENTS

MARKING CODES
MARKING STYLE
CHARACTERISTICS
PINOUT



- 75.800 SMD codes for diodes, transistors, thyristors, integrated circuits
- Cases drawings and pinouts
- Connection diagrams

Edition 2008



ELECTRONICS

COMPONENTS

Active SMD components marking codes databook

Introduction

SMD-codes for semiconductor components in 2-pins cases

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2 - pins

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SOT - 89

SOT - 223

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4 - pins

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Introduction

Surface mount devices (SMDs) are used in a growing number of commercial and industrial products. SMDs have improved performance over through-hole components due to their smaller size, shorter internal leads, and smaller board layouts. These factors reduce the circuit's parasitic inductance and capacitance. SMDs can also be more cost effective than traditional through-hole components due to the smaller board size, fewer board layers, and fewer holes. Today more than 50% of active semiconductor components are surface-mounted.

At the same time, SMD devices are, by their very nature, too small to carry conventional semiconductor type numbers. Therefore, a somewhat arbitrary coding system has grown up, where the device package carries a simple one, two or more character or graphic ID code. Thus it is necessary to take into account that the colour and (or) placing of alphanumeric or graphic symbols are also important.

Identifying the manufacturers type number of an SMD device from the package code can be a difficult task. Unfortunately, each device code is not necessarily unique.

It is possible for various manufacturers to place different devices in the same case with the same SMD-code. For example, with a **6H** SMD-code in a SOT-23 case might be either a npn-transistor **BC818** (CDIL) or a capacitance-diode **FMMV2104** (Zetex) or a n-channel JFET transistor **MMBF5486** (Motorla) or a pnp-digital transistor **MUN2131** (Motorola) or a pnp-digital transistor **UN2117 (Matsushita)** or a CMOS-integrated circuit- voltage detector with reset output **R3131N36EA** (Ricoh). Even the same manufacturer may use the same code for different devices.

To identify a particular SMD device, is necessary to identify the manufacturer, package style and note the ID code printed on the device.

The identification of the manufacturer is possible only if on the case are printed the manufacturer's logos, but it not always happens. Besides, sometimes it is possible to determine the manufacturer with indirect tags. Many recent Motorola devices have a small superscript letter after the device code, such as **SA^c** (this smaller letter is merely a month of manufacture code). Siemens and Infineon devices usually have a lower case '**s**' (ATs, LOs). Philips devices usually have a lower case '**p**' (Ahp, Z1p, pB0) or '**l**' (D-Q, Z-S) for the devices made in Hong Kong and '**t**' (ZtS, tT9, Y7t) for the devices made in Malaysia. In section 5 are submitted the logos of the SMD devices manufacturers.

The package style is another problem for the identification of SMD devices. The different manufacturers can designate identical cases according to the various standards (or according to the internal firm system). Besides the various cases can have an identical kind (form) and differ only by sizes, but this distinction of sizes so it is not enough, that can be measured only by special measuring devices. The conformity of the cases name of different manufacturers is submitted in the bottom table:

Table 1

| JEDEC | EIAJ | Central Maxim Philips Siemens | Rohm | Sanyo | Hitachi | Motorola | KEC Toshiba | Panasonic |
|----------|--------|--|------|-------|---------|----------|----------------|-----------|
| TO-236 | SC-59 | SOT-346 | SMT3 | | MPAK2 | SC-59 | S-Mini | Mini3 |
| TO-236AB | | SOT-23 | SST3 | CP | | SOT-23 | | |
| TO-243AA | SC-62 | SOT-89A | MPT3 | | UPAK | | PW-Mini | |
| TO-243AB | SC-62 | SOT-89B | | | | | | |
| TO252-3 | SC-63 | | CPT3 | | | | | |
| TO-253 | | SOT-143 | SMT4 | | | SOT-143 | | |
| TO-253 | SC-61B | SOT-143R | | | | | | |
| | | SOD-123 | | | | SOD-123 | | |
| | SC-76 | SOD-323 | UMD2 | | | | USC | |
| | | SOT-343 | | | | | | |
| | | SOT-343R | | | CMPAK4 | | | |
| | SC-70 | SOT-323 | UMT3 | MCP | CMPAK | SOT-323 | USM | |
| | SC-74 | | SMT6 | | | | SM6 | |
| | SC-74A | SOT-753 | SMT5 | | | | SMV | Mini5 |
| | SC-75A | SOT-416 | EMT3 | | SMPAK | SC-90 | SSM | |
| | SC-79 | SOT-523 | EMD2 | SSFP | | | S-Flat | SMini3 |
| | SC-82 | | UMT4 | | | | | |
| | SC-88 | SOT-363 | UMT6 | | | | US6 | |
| | SC-88A | SOT-353 | UMT5 | | | SC70-5 | USV | |
| | SC-89 | SOT-490 | | | | | | |
| | | SOT23-5 | | | | SC59-5 | | |
| | SC-73 | SOT-223 | | | | | | |
| DO-214AC | | SOD-106 | PMDS | | | | | |
| DO-214AC | | SOD-124 | | | | | | |
| | SC-81 | | | | | | | SSMini3 |

In the following tables sections the SMD semiconductor components - irrelevant as to whether it is dealing with transistors, diodes, integrated circuits etc. are placed in separate tables according to numbers of terminals and (or) type of cases and are listed in strict alpha-numeric order by SMD-codes.

Column 1 (“SMD-Code”)

...(blue) Color of SMD code
 ...+ blue Color of cathode band

Column 2 (“Type”)

The type designations correspond to those of the respective manufacturer documentations.

Column 3 (“Device”)

Short definition of the semiconductor component.
 Used abbreviations:

| | |
|-------------|--|
| C-Diode | Capacitance diode (varactor, varicap) |
| CMOS-IC | CMOS integrated circuit |
| CMOS-Logic | CMOS logic integrated circuit |
| Comp-IC | Voltage comparator integrated circuit |
| CPE | Circuit protector element |
| Digi-IC | Digital integrated circuit |
| GaAs-Diode | Gallium-Arsenide diode |
| GaAs-N-FET | Gallium-Arsenide n-channel FET transistor |
| H-C | Hall effect integrated circuit |
| Lin/Dig-IC | Linear/digital combination integrated circuit |
| Lin-IC | Linear integrated circuit |
| MOS-...* | With integrated gate protection diode |
| MOS-FET-d | Metal oxide FET, depletion type |
| MOS-FET-e | Metal oxide FET, enhancement type |
| n-FET | n-channel field-effect transistor |
| n/p-FET | n and p-channel field-effect transistors |
| p-FET | p-channel field-effect transistor |
| Op-IC | Operational amplifier integrated circuit |
| SA-Diode | Surge absorption diode |
| Si-Diode | Silicon diode |
| Si-npn | Silicon npn transistor |
| Si-npn-Darl | Silicon npn Darlington transistor |
| Si-npn-Digi | Silicon npn “digital” transistor |
| SiGe-npn | Silicon/Germanium npn transistor |
| Si-pnp | Silicon pnp transistor |
| Si-pnp-Darl | Silicon pnp Darlington transistor |
| Si-pnp-Digi | Silicon pnp “digital” transistor |
| Si-Stab | Silicon stabilistor |
| Therm-S | Thermal sensor Integrated Circuit |
| Thy-SPD | Thyristor-surge protector device |
| TTL-Logic | Transistor-Transistor Logic integrated circuit |
| TVS | Transient voltage suppressor |
| VR-IC | Voltage regulator integrated circuit |
| Vref-IC | Voltage reference integrated circuit |
| Z-Diode | Zener diode |
| Z-Diode/TVS | Zener diode - transient voltage suppressor |

Column 4 (“Short description”)

Short data or description of function of each type.
 Used abbreviations:

| | |
|---------|---------------------------------|
| Adj. | Adjust, adjustable |
| AF | Audio Frequency |
| AGC | Automatic Gain Control |
| ALC | Automatic Level Control |
| AM | Amplitude Modulation (AM range) |
| Amp | Amplifier |
| Ant | Antenna |
| Att | Attenuator |
| Aval | Avalanche |
| BTL | Bridge Tied Loads |
| Buff | Buffer |
| CATV | Broad band cable amplifier |
| Cell | Cellular |
| Contr | Controlled |
| Conv | Converter |
| Cordl | Cordless |
| Det | Detector |
| Diff | Differential |
| Dr, Drv | Driver |

| | |
|-----------|--|
| Ext. | External |
| FM | Frequency Modulation (FM range) |
| GaAs | Gallium arsenide |
| GP | General Purpose Applications |
| HF | High Frequency |
| Hi-sp | High-speed |
| HV | High Voltage |
| Instrum. | Instrumental |
| Latch-Pr. | Latch-Protection |
| LDO | Low drop voltage |
| LED | Light-emitting diode |
| LLS | Logic Level Shifter |
| LN | Low Noise |
| LogL | Logic Level (Uth > 0,8...2V) |
| Lo-sat | Low collector-emitter saturation voltage |
| Mix | Mixer |
| MR | Manual Reset |
| ODO | Open Drain Output |
| OVP | Over Voltage protection |
| Osc | Oscillator |
| Out | Output |
| PA | Power Amplifier |
| Pow | Power |
| PPO | Push-Pull Output |
| PWM | Pulse-width modulation |
| Rect | Rectifier |
| Reg | Regulated |
| Res. | Resistor |
| Reset-Pr. | Reset-Protection |
| RF | Radio Frequency applications |
| St-Down | Step-Down |
| Suppress. | Suppressor |
| Sw. | Switching |
| T-MOS | Trench-FET MOSFET |
| Tun | Tuner |
| U-Speed | Ultra-speed |
| UHF | RF applications (>250 MHz) |
| Var | Variable |
| VCO | Voltage controlled oscillator |
| VDet | Voltage Detector |
| VHF | RF applications (100...250MHz) |
| Vid | Video output stages |
| V-MOS | |
| VR | Voltage Regulator |
| WB | Wide Band |

Column 5 (“Case”)

Manufacturers cases designation.

Column 6 (“Pin.”)

Related drawing number (figure) and pin assignment (section 2). All drawings are situated also in the section 2.

Column 7 (“Sch.”)

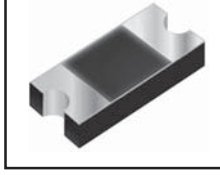
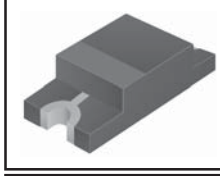
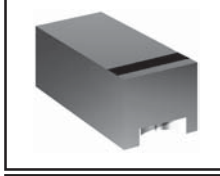
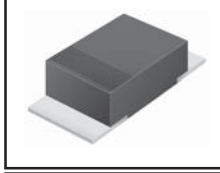
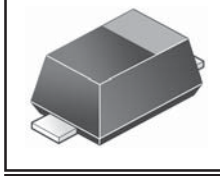
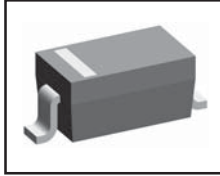
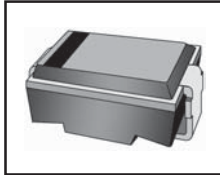
Sample schematic connection for some ICs. All drawings are situated in the section 4.

Column 8 (“St.”)

“Style” (uppercase placement presentation) of the SMD-code drawing. All drawings are situated in the section 3.

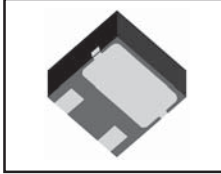
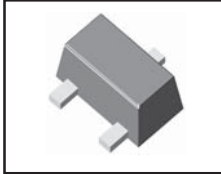
Column 9 (“Mnf.”)

The names of the manufacturers are abbreviated to save space. The complete name, logos, contact and web-addresses of each manufacturer is listed alphabetically on section 5.



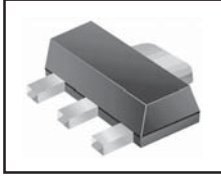
2-pins SMD semiconductor components
SMD-codes for 2-pins cases semiconductor components

| SMD code | Type | Function | Short description | Case | Pin. | St. | Mnf. |
|-----------|-------------|----------|--|----------|------|-------|---------|
| <Z | TCMM3Z75VB | Z-diode | 75V±2%, Izt=5mA, Zzt=240Ω, 200mW | SOD-323F | 6d | 1a | Tac |
| =Z | TCMM3Z56VB | Z-diode | 56V±2%, Izt=5mA, Zzt=188Ω, 200mW | SOD-323F | 6d | 1a | Tac |
| >Z | TCMM3Z68VB | Z-diode | 68V±2%, Izt=5mA, Zzt=226Ω, 200mW | SOD-323F | 6d | 1a | Tac |
| 0 | HVC300A | C-diode | VHF-Tuning, 32V, 2.6..39.5pF(25V..2V/1MHz) | UFP | 6d | 1b | Hit |
| 0 | HVE300A | C-diode | VHF-Tuning, 39.5..47.4pF(2V) | SOD-123 | 5d | 1a | Hit |
| 0 | HVU300A | C-diode | VHF-Tuning, 32V, 2.6..39.5pF(25..2V, 1MHz) | SOD-323 | 5d | 1a | Ren |
| 0 2 | GDZ2V0B-V | Z-diode | 2.02..2.2V, Izt=5mA, Zzt=100Ω, 200mW | SOD-323 | 5d | 1k | Vs |
| 00 | MM3Z2V4 | Z-diode | 2.2..2.6V, 5mA, Zzt=100Ω, 200mW | SOD-323 | 5d | 1a | Ons,Sec |
| 00 | MM5Z2V4 | Z-diode | 2.2..2.6V, 5mA, Zzt=100Ω, 100mW | SOD-523 | 6d | 1a | Ons,Wtr |
| 00 | ZD02V4 | Z-diode | 2.2..2.6V, 5mA, Zzt=100Ω, 200mW | SOD-322 | 5d | 1a | Ctc |
| 01 | MM3Z2V7(T1) | Z-diode | 2.5..2.9V, 5mA, Zzt=100Ω, 200mW | SOD-323 | 5d | 1a | Sec |
| 01 | MM5Z2V7(T1) | Z-diode | 2.5..2.9V, 5mA, Zzt=100Ω, 100mW | SOD-523 | 6d | 1a | Wtr |
| 01 | ZD02V7 | Z-diode | 2.5..2.9V, 5mA, Zzt=100Ω, 200mW | SOD-322 | 5d | 1a | Ctc |
| 01C100PH | BZG01-C100 | Z-diode | 100V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C10PH | BZG01-C10 | Z-diode | 10V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C110PH | BZG01-C110 | Z-diode | 110V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C11PH | BZG01-C11 | Z-diode | 11V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C120PH | BZG01-C120 | Z-diode | 120V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C12PH | BZG01-C12 | Z-diode | 12V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C130PH | BZG01-C130 | Z-diode | 130V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C13PH | BZG01-C13 | Z-diode | 13V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C150PH | BZG01-C150 | Z-diode | 150V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C15PH | BZG01-C15 | Z-diode | 15V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C160PH | BZG01-C160 | Z-diode | 160V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C16PH | BZG01-C16 | Z-diode | 16V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C180PH | BZG01-C180 | Z-diode | 180V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C18PH | BZG01-C18 | Z-diode | 18V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C200PH | BZG01-C200 | Z-diode | 200V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C20PH | BZG01-C20 | Z-diode | 20V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C220PH | BZG01-C220 | Z-diode | 220V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C22PH | BZG01-C22 | Z-diode | 22V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C240PH | BZG01-C240 | Z-diode | 270V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C24PH | BZG01-C24 | Z-diode | 24V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C270PH | BZG01-C270 | Z-diode | 270V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C27PH | BZG01-C27 | Z-diode | 27V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C30PH | BZG01-C30 | Z-diode | 30V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C33PH | BZG01-C33 | Z-diode | 33V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C36PH | BZG01-C36 | Z-diode | 36V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C39PH | BZG01-C39 | Z-diode | 39V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C43PH | BZG01-C43 | Z-diode | 43V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C47PH | BZG01-C47 | Z-diode | 47V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C51PH | BZG01-C51 | Z-diode | 51V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C56PH | BZG01-C56 | Z-diode | 56V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C62PH | BZG01-C62 | Z-diode | 62V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C68PH | BZG01-C68 | Z-diode | 68V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C75PH | BZG01-C75 | Z-diode | 75V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C82PH | BZG01-C82 | Z-diode | 82V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 01C91PH | BZG01-C91 | Z-diode | 91V±5%, 1.5W | DO-214AC | 1d | 1a | Phi |
| 02 | MM3Z3V0 | Z-diode | 2.8..3.2V, 5mA, Zzt=95Ω, 200mW | SOD-323 | 5d | 1a,1d | Ons,Sec |
| 02 | MM5Z3V0 | Z-diode | 2.8..3.2V, 5mA, Zzt=100Ω, 100mW | SOD-523 | 6d | 1a,1u | Ons,Wtr |
| 02 | ZD03V0 | Z-diode | 2.8..3.2V, 5mA, Zzt=100Ω, 200mW | SOD-322 | 5d | 1a | Ctc |
| 03C 10 | BZG03-C10 | Z-diode | 10V±5%, Izt=50mA, Zzt=2Ω, 1.25W | DO-214AC | 1d | 1a | Sil |
| 03C 100 | BZG03-C100 | Z-diode | 100V±5%, Izt=5mA, Zzt=60Ω, 1.25W | DO-214AC | 1d | 1a | Sil |
| 03C 100PH | BZG03-C100 | Z-diode | 100V±5%, Izt=5mA, Zzt=60Ω, 1.25W | DO-214AC | 1d | 1a | Phi |
| 03C 10PH | BZG03-C10 | Z-diode | 10V±5%, Izt=50mA, Zzt=2Ω, 1.25W | DO-214AC | 1d | 1a | Phi |
| 03C 11 | BZG03-C11 | Z-diode | 11V±5%, Izt=50mA, Zzt=4Ω, 1.25W | DO-214AC | 1d | 1a | Sil |
| 03C 110 | BZG03-C110 | Z-diode | 110V±5%, Izt=5mA, Zzt=80Ω, 1.25W | DO-214AC | 1d | 1a | Sil |
| 03C 110PH | BZG03-C110 | Z-diode | 110V±5%, Izt=5mA, Zzt=80Ω, 1.25W | DO-214AC | 1d | 1a | Phi |
| 03C 11PH | BZG03-C11 | Z-diode | 11V±5%, Izt=50mA, Zzt=4Ω, 1.25W | DO-214AC | 1d | 1a | Phi |
| 03C 12 | BZG03-C12 | Z-diode | 12V±5%, Izt=50mA, Zzt=4Ω, 1.25W | DO-214AC | 1d | 1a | Sil |
| 03C 120 | BZG03-C120 | Z-diode | 120V±5%, Izt=5mA, Zzt=80Ω, 1.25W | DO-214AC | 1d | 1a | Sil |
| 03C 120PH | BZG03-C120 | Z-diode | 120V±5%, Izt=5mA, Zzt=80Ω, 1.25W | DO-214AC | 1d | 1a | Phi |
| 03C 12PH | BZG03-C12 | Z-diode | 12V±5%, Izt=50mA, Zzt=4Ω, 1.25W | DO-214AC | 1d | 1a | Phi |
| 03C 13 | BZG03-C13 | Z-diode | 13V±5%, Izt=50mA, Zzt=5Ω, 1.25W | DO-214AC | 1d | 1a | Sil |
| 03C 130 | BZG03-C130 | Z-diode | 130V±5%, Izt=5mA, Zzt=110Ω, 1.25W | DO-214AC | 1d | 1a | Sil |
| 03C 130PH | BZG03-C130 | Z-diode | 130V±5%, Izt=5mA, Zzt=110Ω, 1.25W | DO-214AC | 1d | 1a | Phi |
| 03C 13PH | BZG03-C13 | Z-diode | 13V±5%, Izt=50mA, Zzt=5Ω, 1.25W | DO-214AC | 1d | 1a | Phi |
| 03C 15 | BZG03-C15 | Z-diode | 15V±5%, Izt=50mA, Zzt=5Ω, 1.25W | DO-214AC | 1d | 1a | Sil |
| 03C 150 | BZG03-C150 | Z-diode | 150V±5%, Izt=5mA, Zzt=130Ω, 1.25W | DO-214AC | 1d | 1a | Sil |
| 03C 150PH | BZG03-C150 | Z-diode | 150V±5%, Izt=5mA, Zzt=130Ω, 1.25W | DO-214AC | 1d | 1a | Phi |
| 03C 15PH | BZG03-C15 | Z-diode | 15V±5%, Izt=50mA, Zzt=5Ω, 1.25W | DO-214AC | 1d | 1a | Phi |
| 03C 16 | BZG03-C16 | Z-diode | 16V±5%, Izt=25mA, Zzt=6Ω, 1.25W | DO-214AC | 1d | 1a | Sil |
| 03C 160 | BZG03-C160 | Z-diode | 160V±5%, Izt=5mA, Zzt=150Ω, 1.25W | DO-214AC | 1d | 1a | Sil |
| 03C 160PH | BZG03-C160 | Z-diode | 160V±5%, Izt=5mA, Zzt=150Ω, 1.25W | DO-214AC | 1d | 1a | Phi |
| 03C 16PH | BZG03-C16 | Z-diode | 16V±5%, Izt=25mA, Zzt=6Ω, 1.25W | DO-214AC | 1d | 1a | Phi |



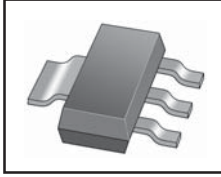
3-pins SMD semiconductor components
SMD-codes for 3-pins cases semiconductor components

| SMD code | Type | Function | Short description | Case | Pin. St. | Sch. | Mnf. |
|----------|-------------|-------------|--|---------|----------|------|------|
| +P2 | BFR92A | Si-npn | UHF-A-Band, 20V, 25mA, 300mW, B>40, >5GHz | SOT-23 | 16ta 3a | - | Sil |
| +P5 | BFR92AR | Si-npn | UHF-A-Band, 20V, 25mA, 300mW, B>40, >5GHz | SOT-23 | 16te 3a | - | Sil |
| +R2 | BFR93A | Si-npn | UHF-A-Band, 15V, 30mA, 300mW, B>40, >5GHz | SOT-23 | 16ta 3a | - | Sil |
| +R5 | BFR93AR | Si-npn | UHF-A-Band, 15V, 30mA, 300mW, B>40, >5GHz | SOT-23 | 16te 3a | - | Sil |
| 01 | PDTA143EE | Si-npn-Digi | Sw, 50V, 100mA, 150mW, R1/R2=4.7k/4.7k | SC-75 | 16ta 3a | - | Phi |
| 01 | PDTA143EK | Si-npn-Digi | Sw, 50V, 100mA, 250mW, R1/R2=4.7k/4.7k | SC-59 | 16ta 3a | - | Phi |
| 011 | SO2369R | Si-npn | Sw, 40V, 200mA, 330mW, B=40..120 | SOT-23R | 16te 3a | - | Ste |
| 01A | APR3001-15A | CMOS-IC | Voltage detector, 1.5V, -Reset Push-pull output | SOT-23 | 16vdb 3b | VD7 | Anp |
| 01B | APR3001-17A | CMOS-IC | Voltage detector, 1.75V, -Reset Push-pull output | SOT-23 | 16vdb 3b | VD7 | Anp |
| 01C | APR3001-23A | CMOS-IC | Voltage detector, 2.32V, -Reset Push-pull output | SOT-23 | 16vdb 3b | VD7 | Anp |
| 01D | APR3001-26A | CMOS-IC | Voltage detector, 2.63V, -Reset Push-pull output | SOT-23 | 16vdb 3b | VD7 | Anp |
| 01E | APR3001-29A | CMOS-IC | Voltage detector, 2.93V, -Reset Push-pull output | SOT-23 | 16vdb 3b | VD7 | Anp |
| 01F | APR3001-30A | CMOS-IC | Voltage detector, 3.08V, -Reset Push-pull output | SOT-23 | 16vdb 3b | VD7 | Anp |
| 01G | APR3001-39A | CMOS-IC | Voltage detector, 3.9V, -Reset Push-pull output | SOT-23 | 16vdb 3b | VD7 | Anp |
| 01H | APR3001-43A | CMOS-IC | Voltage detector, 4.38V, -Reset Push-pull output | SOT-23 | 16vdb 3b | VD7 | Anp |
| 01J | APR3001-46A | CMOS-IC | Voltage detector, 4.63V, -Reset Push-pull output | SOT-23 | 16vdb 3b | VD7 | Anp |
| 02 | BSX39 | Si-npn | Sw, Driver, 45V, 0.2A, <12/18ns | SOT-23 | 16te 3a | - | Mot |
| 02 | PDTC143EE | Si-npn-Digi | Sw, 50V, 100mA, 150mW, R1/R2=4.7k/4.7k | SC-75 | 16ta 3a | - | Phi |
| 02 | PDTC143EK | Si-npn-Digi | Sw, 50V, 100mA, 150mW, R1/R2=4.7k/4.7k | SC-59 | 16ta 3a | - | Phi |
| 02A | APR3002-15A | CMOS-IC | Voltage detector, 1.5V, Reset Push-pull output | SOT-23 | 16vdb 3b | VD7 | Anp |
| 02C | APR3002-23A | CMOS-IC | Voltage detector, 2.32V, Reset Push-pull output | SOT-23 | 16vdb 3b | VD7 | Anp |
| 02D | APR3002-26A | CMOS-IC | Voltage detector, 2.63V, Reset Push-pull output | SOT-23 | 16vdb 3b | VD7 | Anp |
| 02E | APR3002-29A | CMOS-IC | Voltage detector, 2.93V, Reset Push-pull output | SOT-23 | 16vdb 3b | VD7 | Anp |
| 02F | APR3002-30A | CMOS-IC | Voltage detector, 3.08V, Reset Push-pull output | SOT-23 | 16vdb 3b | VD7 | Anp |
| 02G | APR3002-39A | CMOS-IC | Voltage detector, 3.9V, Reset Push-pull output | SOT-23 | 16vdb 3b | VD7 | Anp |
| 02H | APR3002-43A | CMOS-IC | Voltage detector, 4.38V, Reset Push-pull output | SOT-23 | 16vdb 3b | VD7 | Anp |
| 02J | APR3002-46A | CMOS-IC | Voltage detector, 4.63V, Reset Push-pull output | SOT-23 | 16vdb 3b | VD7 | Anp |
| 03 | DTC143TE | Si-npn-Digi | Sw, 50V, 100mA, 150mW, 250MHz, R1=4k7 | SOT-416 | 16ta 3a | - | Rhm |
| 03 | DTC143TKA | Si-npn-Digi | Sw, 50V, 100mA, 200mW, 250MHz, R1=4k7 | SOT-346 | 16ta 3a | - | Rhm |
| 03 | DTC143TM | Si-npn-Digi | Sw, 50V, 100mA, 150mW, 250MHz, R1=4k7 | VMT3 | 18ta 3a | - | Rhm |
| 03 | DTC143TUA | Si-npn-Digi | Sw, 50V, 100mA, 200mW, 250MHz, R1=4.7k | UMT3 | 16ta 3a | - | Rhm |
| 03 | MSCT03 | TVS | 3.3V, 300W (8/20µs) | SOT-23 | 16dh 3a | - | Msp |
| 03 | PDTA114EE | Si-npn-Digi | Sw, 50V, 100mA, 150mW, R1/R2=10k/10k | SC-75 | 16ta 3a | - | Phi |
| 03 | PDTA114EEF | Si-npn-Digi | Sw, 50V, 100mA, 250mW, R1/R2=10k/10k | SOT-490 | 18ta 3a | - | Phi |
| 03 | PDTA114EK | Si-npn-Digi | Sw, 50V, 100mA, 250mW, R1/R2=10k/10k | SC-59 | 16ta 3a | - | Phi |
| -03 | PDTA114EU | Si-npn-Digi | Sw, 50V, 100mA, 200mW, R1/R2=10k/10k | SOT-323 | 16ta 3a | - | PhH |
| 03A | APR3003-15A | CMOS-IC | Voltage detector, 1.5V, -Reset Open drain output | SOT-23 | 16vdb 3b | VD6 | Anp |
| 03B | APR3003-17A | CMOS-IC | Voltage detector, 1.75V, -Reset Open drain output | SOT-23 | 16vdb 3b | VD6 | Anp |
| 03C | APR3003-23A | CMOS-IC | Voltage detector, 2.32V, -Reset Open drain output | SOT-23 | 16vdb 3b | VD6 | Anp |
| 03C | MSCT03C | TVS | 3.3V, 300W (8/20µs), Bidirectional | SOT-23 | 16dp 3a | - | Msp |
| 03D | APR3003-26A | CMOS-IC | Voltage detector, 2.63V, -Reset Open drain output | SOT-23 | 16vdb 3b | VD6 | Anp |
| 03E | APR3003-29A | CMOS-IC | Voltage detector, 2.93V, -Reset Open drain output | SOT-23 | 16vdb 3b | VD6 | Anp |
| 03F | APR3003-30A | CMOS-IC | Voltage detector, 3.08V, -Reset Open drain output | SOT-23 | 16vdb 3b | VD6 | Anp |
| 03G | APR3003-39A | CMOS-IC | Voltage detector, 3.9V, -Reset Open drain output | SOT-23 | 16vdb 3b | VD6 | Anp |
| 03H | APR3003-43A | CMOS-IC | Voltage detector, 4.38V, -Reset Open drain output | SOT-23 | 16vdb 3b | VD6 | Anp |
| 03J | APR3003-46A | CMOS-IC | Voltage detector, 4.63V, -Reset Open drain output | SOT-23 | 16vdb 3b | VD6 | Anp |
| 04 | PDTC114EK | Si-npn-Digi | Sw, 50V, 100mA, 250mW, R1/R2=10k/10k | SC-59 | 16ta 3a | - | Phi |
| -04 | PMS33904 | Si-npn | GP, 60V, 100mA, 200mW, B=100..300, >180MHz | SC-70 | 16ta 3a | - | PhH |
| 05 | DTC124TE | Si-npn-Digi | Sw, 50V, 100mA, 150mW, 250MHz, R1=22k | SOT-416 | 16ta 3a | - | Rhm |
| 05 | DTC124TKA | Si-npn-Digi | Sw, 50V, 100mA, 200mW, 250MHz, R1=22k | SOT-346 | 16ta 3a | - | Rhm |
| 05 | DTC124TM | Si-npn-Digi | Sw, 50V, 100mA, 150mW, 250MHz, R1=22k | VMT3 | 18ta 3a | - | Rhm |
| 05 | DTC124TUA | Si-npn-Digi | Sw, 50V, 100mA, 200mW, B=111..600, >200MHz, R1=22k | UMT3 | 16ta 3a | - | Rhm |
| 05 | MSCT05 | TVS | 5V, 300W (8/20µs) | SOT-23 | 16dh 3a | - | Msp |
| 05 | PDTA124EE | Si-npn-Digi | Sw, 50V, 100mA, 150mW, R1/R2=22k/22k | SC-75 | 16ta 3a | - | Phi |
| 05 | PDTA124EK | Si-npn-Digi | Sw, 50V, 100mA, 250mW, R1/R2=22k/22k | SC-59 | 16ta 3a | - | Phi |
| 05C | MSCT05C | TVS | 5V, 300W (8/20µs), Bidirectional | SOT-23 | 16dp 3a | - | Msp |
| 06 | PDTC124EE | Si-npn-Digi | Sw, 50V, 100mA, 150mW, R1/R2=22k/22k | SC-75 | 16ta 3a | - | Phi |
| 06 | PDTC124EK | Si-npn-Digi | Sw, 50V, 100mA, 250mW, R1/R2=22k/22k | SC-59 | 16ta 3a | - | Phi |
| -06 | PMS33906 | Si-npn | GP, 60V, 100mA, 200mW, B=100..300, >150MHz | SC-70 | 16ta 3a | - | PhH |
| 07 | PDTA144EE | Si-npn-Digi | Sw, 50V, 100mA, 150mW, R1/R2=47k/47k | SC-75 | 16ta 3a | - | Phi |
| 07 | PDTA144EEF | Si-npn-Digi | Sw, 50V, 100mA, 250mW, R1/R2=47k/47k | SOT-490 | 18ta 3a | - | Phi |
| 07 | PDTA144EK | Si-npn-Digi | Sw, 50V, 100mA, 250mW, R1/R2=47k/47k | SC-59 | 16ta 3a | - | Phi |
| 08 | MSCT08 | TVS | 8V, 300W (8/20µs) | SOT-23 | 16dh 3a | - | Msp |
| 08 | PDTC144EE | Si-npn-Digi | Sw, 50V, 100mA, 150mW, R1/R2=47k/47k | SC-75 | 16ta 3a | - | Phi |
| 08 | PDTC144EEF | Si-npn-Digi | Sw, 50V, 100mA, 250mW, R1/R2=47k/47k | SOT-490 | 18ta 3a | - | Phi |
| 08 | PDTC144EK | Si-npn-Digi | Sw, 50V, 100mA, 250mW, R1/R2=47k/47k | SC-59 | 16ta 3a | - | Phi |
| 081 | SO2369AR | Si-npn | Sw, 40V, 200mA, 330mW, B=40..120 | SOT-23R | 16te 3a | - | Ste |
| 08C | MSCT08C | TVS | 8V, 300W (8/20µs), Bidirectional | SOT-23 | 16dp 3a | - | Msp |
| 09 | DTC115TE | Si-npn-Digi | Sw, 50V, 100mA, 150mW, 250MHz, R1=100k | SOT-416 | 16ta 3a | - | Rhm |
| 09 | DTC115TKA | Si-npn-Digi | Sw, 50V, 100mA, 200mW, 250MHz, R1=100k | SOT-346 | 16ta 3a | - | Rhm |
| 09 | DTC115TM | Si-npn-Digi | Sw, 50V, 100mA, 150mW, 250MHz, R1=100k | VMT3 | 18ta 3a | - | Rhm |
| 09 | DTC115TUA | Si-npn-Digi | Sw, 50V, 100mA, 200mW, 250MHz, R1=100k | UMT3 | 16ta 3a | - | Rhm |
| 09 | PDTC114EE | Si-npn-Digi | Sw, 50V, 100mA, 150mW, R1/R2=10k/10k | SC-75 | 16ta 3a | - | Phi |
| 09 | PDTC114EEF | Si-npn-Digi | Sw, 50V, 100mA, 250mW, R1/R2=10k/10k | SOT-490 | 18ta 3a | - | Phi |
| -09 | PDTC114EU | Si-npn-Digi | Sw, 50V, 100mA, 200mW, R1/R2=10k/10k | SOT-323 | 16ta 3a | - | PhH |



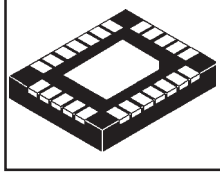
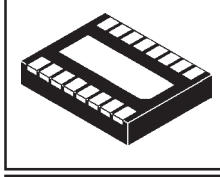
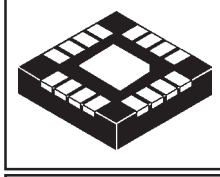
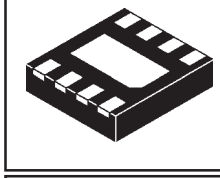
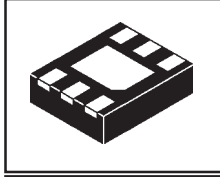
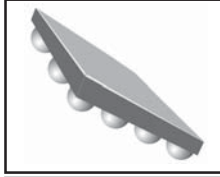
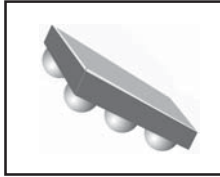
SMD semiconductor components in SOT-89 cases
SMD-codes for semiconductor components in SOT-89 cases

| SMD code | Type | Function | Short description | Case | Pin. | St. | Sch. | Mnf. |
|----------|-------------|----------|---|--------|-------|-----|------|------|
| 01 | Gali-1 | Lin-IC | RF amplifier, DC..8GHz, 11dB (50Ω) | SOT-89 | 20aa | 4b | A1 | Mc |
| 01A | APR3001-15D | CMOS-IC | Voltage detector, 1.5V, -Reset Push-pull output | SOT-89 | 20vda | 4b | VD7 | Anp |
| 01B | APR3001-17D | CMOS-IC | Voltage detector, 1.75V, -Reset Push-pull output | SOT-89 | 20vda | 4b | VD7 | Anp |
| 01C | APR3001-23D | CMOS-IC | Voltage detector, 2.32V, -Reset Push-pull output | SOT-89 | 20vda | 4b | VD7 | Anp |
| 01D | APR3001-26D | CMOS-IC | Voltage detector, 2.63V, -Reset Push-pull output | SOT-89 | 20vda | 4b | VD7 | Anp |
| 01E | APR3001-29D | CMOS-IC | Voltage detector, 2.93V, -Reset Push-pull output | SOT-89 | 20vda | 4b | VD7 | Anp |
| 01F | APR3001-30D | CMOS-IC | Voltage detector, 3.08V, -Reset Push-pull output | SOT-89 | 20vda | 4b | VD7 | Anp |
| 01G | APR3001-39D | CMOS-IC | Voltage detector, 3.9V, -Reset Push-pull output | SOT-89 | 20vda | 4b | VD7 | Anp |
| 01H | APR3001-43D | CMOS-IC | Voltage detector, 4.38V, -Reset Push-pull output | SOT-89 | 20vda | 4b | VD7 | Anp |
| 01J | APR3001-46D | CMOS-IC | Voltage detector, 4.63V, -Reset Push-pull output | SOT-89 | 20vda | 4b | VD7 | Anp |
| 02 | Gali-2 | Lin-IC | RF amplifier, DC..8GHz, 15,1dB (50Ω) | SOT-89 | 20aa | 4b | A1 | Mc |
| 02A | APR3002-15D | CMOS-IC | Voltage detector, 1.5V, Reset Push-pull output | SOT-89 | 20vda | 4b | VD7 | Anp |
| 02B | APR3002-17D | CMOS-IC | Voltage detector, 1.75V, Reset Push-pull output | SOT-89 | 20vda | 4b | VD7 | Anp |
| 02C | APR3002-23D | CMOS-IC | Voltage detector, 2.32V, Reset Push-pull output | SOT-89 | 20vda | 4b | VD7 | Anp |
| 02D | APR3002-26D | CMOS-IC | Voltage detector, 2.63V, Reset Push-pull output | SOT-89 | 20vda | 4b | VD7 | Anp |
| 02E | APR3002-29D | CMOS-IC | Voltage detector, 2.93V, Reset Push-pull output | SOT-89 | 20vda | 4b | VD7 | Anp |
| 02F | APR3002-30D | CMOS-IC | Voltage detector, 3.08V, Reset Push-pull output | SOT-89 | 20vda | 4b | VD7 | Anp |
| 02G | APR3002-39D | CMOS-IC | Voltage detector, 3.9V, Reset Push-pull output | SOT-89 | 20vda | 4b | VD7 | Anp |
| 02H | APR3002-43D | CMOS-IC | Voltage detector, 4.38V, Reset Push-pull output | SOT-89 | 20vda | 4b | VD7 | Anp |
| 02J | APR3002-46D | CMOS-IC | Voltage detector, 4.63V, Reset Push-pull output | SOT-89 | 20vda | 4b | VD7 | Anp |
| 03 | Gali-3 | Lin-IC | RF amplifier, DC..3GHz, 15,8dB (50Ω) | SOT-89 | 20aa | 4b | A1 | Mc |
| 03A | APR3003-15D | CMOS-IC | Voltage detector, 1.5V, -Reset Open drain output | SOT-89 | 20vda | 4b | VD6 | Anp |
| 03B | APR3003-17D | CMOS-IC | Voltage detector, 1.75V, -Reset Open drain output | SOT-89 | 20vda | 4b | VD6 | Anp |
| 03C | APR3003-23D | CMOS-IC | Voltage detector, 2.32V, -Reset Open drain output | SOT-89 | 20vda | 4b | VD6 | Anp |
| 03D | APR3003-26D | CMOS-IC | Voltage detector, 2.63V, -Reset Open drain output | SOT-89 | 20vda | 4b | VD6 | Anp |
| 03E | APR3003-29D | CMOS-IC | Voltage detector, 2.93V, -Reset Open drain output | SOT-89 | 20vda | 4b | VD6 | Anp |
| 03F | APR3003-30D | CMOS-IC | Voltage detector, 3.08V, -Reset Open drain output | SOT-89 | 20vda | 4b | VD6 | Anp |
| 03G | APR3003-39D | CMOS-IC | Voltage detector, 3.9V, -Reset Open drain output | SOT-89 | 20vda | 4b | VD6 | Anp |
| 03H | APR3003-43D | CMOS-IC | Voltage detector, 4.38V, -Reset Open drain output | SOT-89 | 20vda | 4b | VD6 | Anp |
| 03J | APR3003-46D | CMOS-IC | Voltage detector, 4.63V, -Reset Open drain output | SOT-89 | 20vda | 4b | VD6 | Anp |
| 04 | Gali-4 | Lin-IC | RF amplifier, DC..4GHz, 13,1dB (50Ω) | SOT-89 | 20aa | 4b | A1 | Mc |
| 047 | FCX1047A | Si-npn | Hi-beta, Lo-sat, 35V, 4A, 150MHz | SOT-89 | 20tb | 4b | - | Zx |
| 04F | Gali-4F | Lin-IC | RF amplifier, DC..4GHz, 13,2dB (50Ω) | SOT-89 | 20aa | 4b | A1 | Mc |
| 05 | Gali-5 | Lin-IC | RF amplifier, DC..4GHz, 15,1dB (50Ω) | SOT-89 | 20aa | 4b | A1 | Mc |
| 051 | FCX1051A | Si-npn | Hi-beta, Lo-sat, 150V, 3A, 155MHz | SOT-89 | 20tb | 4b | - | Zx |
| 05F | Gali-5F | Lin-IC | RF amplifier, DC..4GHz, 15,1dB (50Ω) | SOT-89 | 20aa | 4b | A1 | Mc |
| 06 | Gali-6 | Lin-IC | RF amplifier, DC..4GHz, 12,3dB (50Ω) | SOT-89 | 20aa | 4b | A1 | Mc |
| 06F | Gali-6F | Lin-IC | RF amplifier, DC..4GHz, 12,3dB (50Ω) | SOT-89 | 20aa | 4b | A1 | Mc |
| 0B | RH5RL20AA | VR-IC | 2V±2,5%, 150mA | SOT-89 | 20vl | 4c | VR1 | Ric |
| 0C | MC78LC30HT1 | VR-IC | Low Iq, 3V±2,5%, 80mA | SOT-89 | 20vl | | VR1 | Ons |
| 0C | RH5RL30AA | VR-IC | 3V±2,5%, 150mA | SOT-89 | 20vl | 4c | VR1 | Ric |
| 0D | RH5RL40AA | VR-IC | 4V±2,5%, 150mA | SOT-89 | 20vl | 4c | VR1 | Ric |
| 0E | RH5RL50AA | VR-IC | 5V±2,5%, 150mA | SOT-89 | 20vl | 4c | VR1 | Ric |
| 0F | RH5RL60AA | VR-IC | 6V±2,5%, 150mA | SOT-89 | 20vl | 4c | VR1 | Ric |
| 0J | RH5RE20AA | VR-IC | Ultra-LDO, 2V±2,5%, 300mA | SOT-89 | 20vl | 4c | VR1 | Ric |
| 0K | RH5RE30AA | VR-IC | Ultra-LDO, 3V±2,5%, 300mA | SOT-89 | 20vl | 4c | VR1 | Ric |
| 0L | RH5RE40AA | VR-IC | Ultra-LDO, 4V±2,5%, 300mA | SOT-89 | 20vl | 4c | VR1 | Ric |
| 0M | RH5RE50AA | VR-IC | Ultra-LDO, 5V±2,5%, 300mA | SOT-89 | 20vl | 4c | VR1 | Ric |
| 0N | RH5RE60AA | VR-IC | Ultra-LDO, 6V±2,5%, 300mA | SOT-89 | 20vl | 4c | VR1 | Ric |
| 1019 | EC1019B | Lin-IC | RF amplifier, DC..4GHz, 20dB (50Ω) | SOT-89 | 20aa | 4b | A1 | Wjc |
| 1019G | EC1019B-G | Lin-IC | RF amplifier, DC..4GHz, 20dB (50Ω) | SOT-89 | 20aa | 4b | A1 | Wjc |
| 10Y | BZV49-C10 | Z-diode | 10V±5%, Izt=5mA, 1W | SOT-89 | 20dm | 4b | - | Phi |
| 11A | APR3011-15D | CMOS-IC | Voltage detector, 1.5V, -Reset Push-pull output | SOT-89 | 20vde | 4b | VD7 | Anp |
| 11B | APR3011-17D | CMOS-IC | Voltage detector, 1.75V, -Reset Push-pull output | SOT-89 | 20vde | 4b | VD7 | Anp |
| 11C | APR3011-23D | CMOS-IC | Voltage detector, 2.32V, -Reset Push-pull output | SOT-89 | 20vde | 4b | VD7 | Anp |
| 11D | APR3011-26D | CMOS-IC | Voltage detector, 2.63V, -Reset Push-pull output | SOT-89 | 20vde | 4b | VD7 | Anp |
| 11E | APR3011-29D | CMOS-IC | Voltage detector, 2.93V, -Reset Push-pull output | SOT-89 | 20vde | 4b | VD7 | Anp |
| 11F | APR3011-30D | CMOS-IC | Voltage detector, 3.08V, -Reset Push-pull output | SOT-89 | 20vde | 4b | VD7 | Anp |
| 11G | APR3011-39D | CMOS-IC | Voltage detector, 3.9V, -Reset Push-pull output | SOT-89 | 20vde | 4b | VD7 | Anp |
| 11H | APR3011-43D | CMOS-IC | Voltage detector, 4.38V, -Reset Push-pull output | SOT-89 | 20vde | 4b | VD7 | Anp |
| 11J | APR3011-46D | CMOS-IC | Voltage detector, 4.63V, -Reset Push-pull output | SOT-89 | 20vde | 4b | VD7 | Anp |
| 11Y | BZV49-C11 | Z-diode | 11V±5%, Izt=5mA, 1W | SOT-89 | 20dm | 4b | - | Phi |
| 12A | APR3012-15D | CMOS-IC | Voltage detector, 1.5V, Reset Push-pull output | SOT-89 | 20vde | 4b | VD7 | Anp |
| 12B | APR3012-17D | CMOS-IC | Voltage detector, 1.75V, Reset Push-pull output | SOT-89 | 20vde | 4b | VD7 | Anp |
| 12C | APR3012-23D | CMOS-IC | Voltage detector, 2.32V, Reset Push-pull output | SOT-89 | 20vde | 4b | VD7 | Anp |
| 12D | APR3012-26D | CMOS-IC | Voltage detector, 2.63V, Reset Push-pull output | SOT-89 | 20vde | 4b | VD7 | Anp |
| 12E | APR3012-29D | CMOS-IC | Voltage detector, 2.93V, Reset Push-pull output | SOT-89 | 20vde | 4b | VD7 | Anp |
| 12F | APR3012-30D | CMOS-IC | Voltage detector, 3.08V, Reset Push-pull output | SOT-89 | 20vde | 4b | VD7 | Anp |
| 12G | APR3012-39D | CMOS-IC | Voltage detector, 3.9V, Reset Push-pull output | SOT-89 | 20vde | 4b | VD7 | Anp |
| 12H | APR3012-43D | CMOS-IC | Voltage detector, 4.38V, Reset Push-pull output | SOT-89 | 20vde | 4b | VD7 | Anp |
| 12J | APR3012-46D | CMOS-IC | Voltage detector, 4.63V, Reset Push-pull output | SOT-89 | 20vde | 4b | VD7 | Anp |
| 12Y | BZV49-C12 | Z-diode | 12V±5%, Izt=5mA, 1W | SOT-89 | 20dm | 4b | - | Phi |
| 13A | APR3013-15D | CMOS-IC | Voltage detector, 1.5V, -Reset Open drain output | SOT-89 | 20vde | 4b | VD6 | Anp |
| 13B | APR3013-17D | CMOS-IC | Voltage detector, 1.75V, -Reset Open drain output | SOT-89 | 20vde | 4b | VD6 | Anp |
| 13C | APR3013-23D | CMOS-IC | Voltage detector, 2.32V, -Reset Open drain output | SOT-89 | 20vde | 4b | VD6 | Anp |



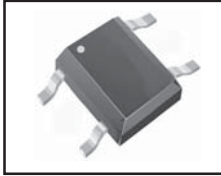
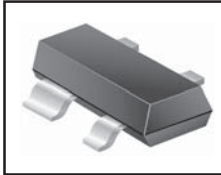
SMD semiconductor components in SOT-223 cases
SMD-codes for semiconductor components in SOT-223
cases

| SMD code | Type | Function | Short description | Case | Pin. | St. | Sch. | Mnf. |
|----------|--------------|----------|-------------------------------|---------|------|-----|------|------|
| 117-2 | NCP1117ST20 | VR-IC | LDO, 2V±1%, 800mA | SOT-223 | 21wb | | VR1 | Ons |
| 117-5 | NCP1117ST50 | VR-IC | LDO, 5V±1%, 800mA | SOT-223 | 21wb | | VR1 | Ons |
| 117-A | NCP1117STA | VR-IC | LDO, Adjustable, 800mA | SOT-223 | 21wc | | VR20 | Ons |
| 17-12 | NCP1117ST12 | VR-IC | LDO, 12V±1%, 800mA | SOT-223 | 21wb | | VR1 | Ons |
| 17-15 | NCP1117ST15 | VR-IC | LDO, 1.5V±1%, 800mA | SOT-223 | 21wb | | VR1 | Ons |
| 17-18 | NCP1117ST18 | VR-IC | LDO, 1.8V±1%, 800mA | SOT-223 | 21wb | | VR1 | Ons |
| 17-25 | NCP1117ST25 | VR-IC | LDO, 2.5V±1%, 800mA | SOT-223 | 21wb | | VR1 | Ons |
| 17-33 | NCP1117ST33 | VR-IC | LDO, 3.3V±1%, 800mA | SOT-223 | 21wb | | VR1 | Ons |
| 1N10 | MMFT1N10E | n-MOS-e | V-MOS, 100V, 1A, <0.25Ω(0.5A) | SOT-223 | 21fi | | - | Mot |
| 24K | XC6202P182FR | VR-IC | LDO, 1.8V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 24L | XC6202P192FR | VR-IC | LDO, 1.9V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 24M | XC6202P202FR | VR-IC | LDO, 2V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 24N | XC6202P212FR | VR-IC | LDO, 2.1V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 24P | XC6202P222FR | VR-IC | LDO, 2.2V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 24R | XC6202P232FR | VR-IC | LDO, 2.3V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 24S | XC6202P242FR | VR-IC | LDO, 2.4V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 24T | XC6202P252FR | VR-IC | LDO, 2.5V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 24U | XC6202P262FR | VR-IC | LDO, 2.6V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 24V | XC6202P272FR | VR-IC | LDO, 2.7V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 24X | XC6202P282FR | VR-IC | LDO, 2.8V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 24Y | XC6202P292FR | VR-IC | LDO, 2.9V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 24Z | XC6202P302FR | VR-IC | LDO, 3V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 250 | XC6202P312FR | VR-IC | LDO, 3.1V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 251 | XC6202P322FR | VR-IC | LDO, 3.2V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 252 | XC6202P332FR | VR-IC | LDO, 3.3V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 253 | XC6202P342FR | VR-IC | LDO, 3.4V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 254 | XC6202P352FR | VR-IC | LDO, 3.5V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 255 | XC6202P362FR | VR-IC | LDO, 3.6V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 256 | XC6202P372FR | VR-IC | LDO, 3.7V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 257 | XC6202P382FR | VR-IC | LDO, 3.8V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 258 | XC6202P392FR | VR-IC | LDO, 3.9V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 259 | XC6202P402FR | VR-IC | LDO, 4V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 25A | XC6202P412FR | VR-IC | LDO, 4.1V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 25B | XC6202P422FR | VR-IC | LDO, 4.2V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 25C | XC6202P432FR | VR-IC | LDO, 4.3V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 25D | XC6202P442FR | VR-IC | LDO, 4.4V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 25E | XC6202P452FR | VR-IC | LDO, 4.5V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 25F | XC6202P462FR | VR-IC | LDO, 4.6V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 25H | XC6202P472FR | VR-IC | LDO, 4.7V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 25K | XC6202P482FR | VR-IC | LDO, 4.8V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 25L | XC6202P492FR | VR-IC | LDO, 4.9V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 25M | XC6202P502FR | VR-IC | LDO, 5V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 25N | XC6202P512FR | VR-IC | LDO, 5.1V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 25P | XC6202P522FR | VR-IC | LDO, 5.2V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 25R | XC6202P532FR | VR-IC | LDO, 5.3V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 25S | XC6202P542FR | VR-IC | LDO, 5.4V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 25T | XC6202P552FR | VR-IC | LDO, 5.5V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 25U | XC6202P562FR | VR-IC | LDO, 5.6V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 25V | XC6202P572FR | VR-IC | LDO, 5.7V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 25X | XC6202P582FR | VR-IC | LDO, 5.8V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 25Y | XC6202P592FR | VR-IC | LDO, 5.9V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 25Z | XC6202P602FR | VR-IC | LDO, 6V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 260 | XC6202P612FR | VR-IC | LDO, 6.1V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 261 | XC6202P622FR | VR-IC | LDO, 6.2V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 262 | XC6202P632FR | VR-IC | LDO, 6.3V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 263 | XC6202P642FR | VR-IC | LDO, 6.4V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 264 | XC6202P652FR | VR-IC | LDO, 6.5V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 265 | XC6202P662FR | VR-IC | LDO, 6.6V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 266 | XC6202P672FR | VR-IC | LDO, 6.7V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 267 | XC6202P682FR | VR-IC | LDO, 6.8V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 268 | XC6202P692FR | VR-IC | LDO, 6.9V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 269 | XC6202P702FR | VR-IC | LDO, 7V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 26A | XC6202P712FR | VR-IC | LDO, 7.1V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 26B | XC6202P722FR | VR-IC | LDO, 7.2V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 26C | XC6202P732FR | VR-IC | LDO, 7.3V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 26D | XC6202P742FR | VR-IC | LDO, 7.4V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 26E | XC6202P752FR | VR-IC | LDO, 7.5V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 26F | XC6202P762FR | VR-IC | LDO, 7.6V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 26H | XC6202P772FR | VR-IC | LDO, 7.7V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 26K | XC6202P782FR | VR-IC | LDO, 7.8V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 26L | XC6202P792FR | VR-IC | LDO, 7.9V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 26M | XC6202P802FR | VR-IC | LDO, 8V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 26N | XC6202P812FR | VR-IC | LDO, 8.1V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 26P | XC6202P822FR | VR-IC | LDO, 8.2V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |
| 26R | XC6202P832FR | VR-IC | LDO, 8.3V±2%, 150mA | SOT-223 | 21ch | 5c | VR1 | Tor |



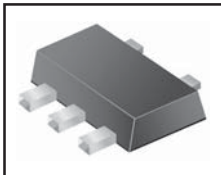
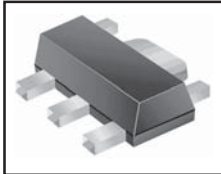
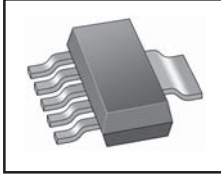
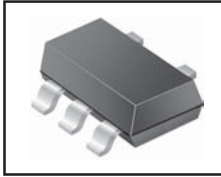
SMD semiconductor components in BGA and LPP cases
SMD-codes for semiconductor components in BGA and LPP cases

| SMD code | Type | Function | Short description | Case | Pin. | St. | Sch. | Mnf. |
|----------|------------------|----------|---|--------|-------|-----|------|------|
| HV | SN74AUP1G07YEPR | CMOS-Log | Noninverting buffer (Open drain output) | BGA-5 | Log8 | 9a | | Ti |
| HV | SN74AUP1G07YZPR | CMOS-Log | Noninverting buffer (Open drain output) | BGA-5 | Log8 | 9a | | Ti |
| HW | SN74AUP1G79YEPR | CMOS-Log | Single D-type flip-flop | BGA-5 | Log20 | 9a | - | Ti |
| HW | SN74AUP1G79YZPR | CMOS-Log | Single D-type flip-flop | BGA-5 | Log20 | 9a | - | Ti |
| HX | SN74AUP1G80YEPR | CMOS-Log | Single D-type flip-flop | BGA-5 | Log21 | 9a | - | Ti |
| HX | SN74AUP1G80YZPR | CMOS-Log | Single D-type flip-flop | BGA-5 | Log21 | 9a | - | Ti |
| U7 | SN74AUC1G17YEAR | CMOS-Log | Schmitt-trigger | BGA-5 | Log11 | 9a | - | Ti |
| U7 | SN74AUC1G17YEPR | CMOS-Log | Schmitt-trigger | BGA-5 | Log11 | 9a | - | Ti |
| U7 | SN74AUC1G17YZAR | CMOS-Log | Schmitt-trigger | BGA-5 | Log11 | 9a | - | Ti |
| U7 | SN74AUC1G17YZPR | CMOS-Log | Schmitt-trigger | BGA-5 | Log11 | 9a | - | Ti |
| UA | SN74AUC1G00YEAR | CMOS-Log | 2-input NAND gate | BGA-5 | Log1 | 9a | - | Ti |
| UA | SN74AUC1G00YEPR | CMOS-Log | 2-input NAND gate | BGA-5 | Log1 | 9a | - | Ti |
| UA | SN74AUC1G00YZAR | CMOS-Log | 2-input NAND gate | BGA-5 | Log1 | 9a | - | Ti |
| UA | SN74AUC1G00YZPR | CMOS-Log | 2-input NAND gate | BGA-5 | Log1 | 9a | - | Ti |
| UF | SN74AUC1G14YEAR | CMOS-Log | Inverting Schmitt-trigger | BGA-5 | Log7 | 9a | - | Ti |
| UF | SN74AUC1G14YEPR | CMOS-Log | Inverting Schmitt-trigger | BGA-5 | Log7 | 9a | - | Ti |
| UF | SN74AUC1G14YZAR | CMOS-Log | Inverting Schmitt-trigger | BGA-5 | Log7 | 9a | - | Ti |
| UF | SN74AUC1G14YZPR | CMOS-Log | Inverting Schmitt-trigger | BGA-5 | Log7 | 9a | - | Ti |
| UG | SN74AUC1G32YEAR | CMOS-Log | 2-input OR gate | BGA-5 | Log4 | 9a | - | Ti |
| UG | SN74AUC1G32YEPR | CMOS-Log | 2-input OR gate | BGA-5 | Log4 | 9a | - | Ti |
| UG | SN74AUC1G32YZAR | CMOS-Log | 2-input OR gate | BGA-5 | Log4 | 9a | - | Ti |
| UG | SN74AUC1G32YZPR | CMOS-Log | 2-input OR gate | BGA-5 | Log4 | 9a | - | Ti |
| UK | SN74AUC1G240YEPR | CMOS-Log | Noninverting 3-State Buffer | BGA-5 | Log13 | 9a | - | Ti |
| UK | SN74AUC1G240YZPR | CMOS-Log | Noninverting 3-State Buffer | BGA-5 | Log13 | 9a | - | Ti |
| UM | SN74AUC1G125YEAR | CMOS-Log | Noninverting 3-State Buffer | BGA-5 | Log14 | 9a | - | Ti |
| UM | SN74AUC1G125YEPR | CMOS-Log | Noninverting 3-State Buffer | BGA-5 | Log14 | 9a | - | Ti |
| UM | SN74AUC1G125YZAR | CMOS-Log | Noninverting 3-State Buffer | BGA-5 | Log14 | 9a | - | Ti |
| UM | SN74AUC1G125YZPR | CMOS-Log | Noninverting 3-State Buffer | BGA-5 | Log14 | 9a | - | Ti |
| UN | SN74AUC1G126YEPR | CMOS-Log | Noninverting 3-State Buffer | BGA-5 | Log13 | 9a | - | Ti |
| UN | SN74AUC1G126YZPR | CMOS-Log | Noninverting 3-State Buffer | BGA-5 | Log13 | 9a | - | Ti |
| 0113 | XC6201132DR | VR-IC | 1.3V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0114 | XC6201142DR | VR-IC | 1.4V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0115 | XC6201152DR | VR-IC | 1.5V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0116 | XC6201162DR | VR-IC | 1.6V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0117 | XC6201172DR | VR-IC | 1.7V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0118 | XC6201182DR | VR-IC | 1.8V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0119 | XC6201192DR | VR-IC | 1.9V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0120 | XC6201202DR | VR-IC | 2V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0121 | XC6201212DR | VR-IC | 2.1V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0122 | XC6201222DR | VR-IC | 2.2V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0123 | XC6201232DR | VR-IC | 2.3V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0124 | XC6201242DR | VR-IC | 2.4V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0125 | XC6201252DR | VR-IC | 2.5V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0126 | XC6201262DR | VR-IC | 2.6V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0127 | XC6201272DR | VR-IC | 2.7V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0128 | XC6201282DR | VR-IC | 2.8V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0129 | XC6201292DR | VR-IC | 2.9V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0130 | XC6201302DR | VR-IC | 3V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0131 | XC6201312DR | VR-IC | 3.1V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0132 | XC6201322DR | VR-IC | 3.2V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0133 | XC6201332DR | VR-IC | 3.3V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0134 | XC6201342DR | VR-IC | 3.4V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0135 | XC6201352DR | VR-IC | 3.5V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0136 | XC6201362DR | VR-IC | 3.6V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0137 | XC6201372DR | VR-IC | 3.7V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0138 | XC6201382DR | VR-IC | 3.8V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0139 | XC6201392DR | VR-IC | 3.9V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0140 | XC6201402DR | VR-IC | 4V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0141 | XC6201412DR | VR-IC | 4.1V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0142 | XC6201422DR | VR-IC | 4.2V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0143 | XC6201432DR | VR-IC | 4.3V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0144 | XC6201442DR | VR-IC | 4.4V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0145 | XC6201452DR | VR-IC | 4.5V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0146 | XC6201462DR | VR-IC | 4.6V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0147 | XC6201472DR | VR-IC | 4.7V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0148 | XC6201482DR | VR-IC | 4.8V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0149 | XC6201492DR | VR-IC | 4.9V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0150 | XC6201502DR | VR-IC | 5V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0151 | XC6201512DR | VR-IC | 5.1V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0152 | XC6201522DR | VR-IC | 5.2V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0153 | XC6201532DR | VR-IC | 5.3V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0154 | XC6201542DR | VR-IC | 5.4V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0155 | XC6201552DR | VR-IC | 5.5V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0156 | XC6201562DR | VR-IC | 5.6V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |
| 0157 | XC6201572DR | VR-IC | 5.7V±2%, 250mA | USP-6B | 37hs | 9b | VR1 | Tor |



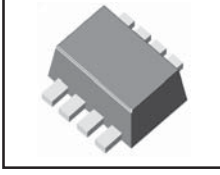
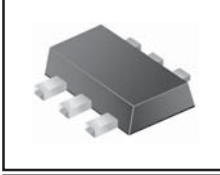
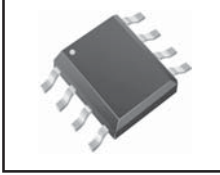
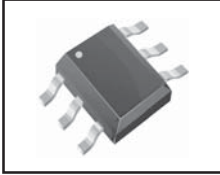
4-pins SMD semiconductor components
SMD-codes for 4-pins cases semiconductor components

| SMD code | Type | Function | Short description | Case | Pin. St. | Sch. | Mnf. |
|----------|--------------|----------|---|----------|----------|------|---------|
| 01 | MRF9011 | Si-npn | UHF, 25V, 30mA, 300mW, B=30..200, 3,9GHz | SOT-143 | 24tc | - | Mot |
| 02 | MRF5711 | Si-npn | UHF, 20V, 80mA, 580mW, B=50..300, 8GHz | SOT-143 | 24tc | - | Mot |
| 03 | VAM-3 | Lin-IC | RF amplifier, DC, 2GHz, 7,5dB (50Ω) | SOT-143 | 24ad | A1 | Mc |
| 04 | MRF4427 | Si-npn | UHF, 40V, 400mA, 220mW, B=10..200, 1,6GHz | SOT-143 | 24tc | - | Mot |
| 04 | MRF5211 | Si-pnp | UHF, 20V, 70mA, 333mW, B=25..125, 4,2GHz | SOT-143 | 24tc | - | Mot |
| 05 | MRF9331 | Si-npn | UHF, 15V, 2mA, 50mW, B=30..200, 5GHz | SOT-143 | 24tc | - | Mot |
| 05F | TSDF1205R | Si-npn | UHF-VHF, LN, 9V, 12mA, 40mW, B=50..250, 12GHz | SOT-143R | 26tu | 3a | Vs |
| 06 | VAM-6 | Lin-IC | RF amplifier, DC, 2GHz, 8dB (50Ω) | SOT-143 | 24ad | A1 | Mc |
| 07 | VAM-7 | Lin-IC | RF amplifier, DC, 2GHz, 7,8dB (50Ω) | SOT-143 | 24ad | A1 | Mc |
| 08 | HBFP-0450 | Si-npn | UHF, LN, 15V, 100mA, 450mW, B=50..150, 1,8GHz | SOT-343 | 24t1 | - | Agi |
| 0A | BU4317F | CMOS-IC | Voltage Detector 1,7V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0A | R3132Q10EA | CMOS-IC | Voltage Detector 1V, MR, -Reset Push-pull output | SOT-143 | 24vdh | 5a | VD5 Ric |
| 0A | RQ5RW50BA | VR-IC | LDO, CE, 5V±2%, 150mA | SOT-143R | 26vp | 5a | VR4 Ric |
| 0B | BU4318F | CMOS-IC | Voltage Detector 1,8V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0B | R3132Q11EA | CMOS-IC | Voltage Detector 1,1V, MR, -Reset Push-pull output | SOT-143 | 24vdh | 5a | VD5 Ric |
| 0B | RQ5RW51BA | VR-IC | LDO, CE, 5,1V±2%, 150mA | SOT-143R | 26vp | 5a | VR4 Ric |
| 0C | BU4319F | CMOS-IC | Voltage Detector 1,9V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0C | R3132Q12EA | CMOS-IC | Voltage Detector 1,2V, MR, -Reset Push-pull output | SOT-143 | 24vdh | 5a | VD5 Ric |
| 0C | RQ5RW52BA | VR-IC | LDO, CE, 5,2V±2%, 150mA | SOT-143R | 26vp | 5a | VR4 Ric |
| 0D | BU4320F | CMOS-IC | Voltage Detector 2V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0D | R3132Q13EA | CMOS-IC | Voltage Detector 1,3V, MR, -Reset Push-pull output | SOT-143 | 24vdh | 5a | VD5 Ric |
| 0D | RQ5RW53BA | VR-IC | LDO, CE, 5,3V±2%, 150mA | SOT-143R | 26vp | 5a | VR4 Ric |
| 0E | BU4321F | CMOS-IC | Voltage Detector 2,1V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0E | R3132Q14EA | CMOS-IC | Voltage Detector 1,4V, MR, -Reset Push-pull output | SOT-143 | 24vdh | 5a | VD5 Ric |
| 0E | RQ5RW54BA | VR-IC | LDO, CE, 5,4V±2%, 150mA | SOT-143R | 26vp | 5a | VR4 Ric |
| 0F | BU4322F | CMOS-IC | Voltage Detector 2,2V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0F | R3132Q15EA | CMOS-IC | Voltage Detector 1,5V, MR, -Reset Push-pull output | SOT-143 | 24vdh | 5a | VD5 Ric |
| 0F | RQ5RW55BA | VR-IC | LDO, CE, 5,5V±2%, 150mA | SOT-143R | 26vp | 5a | VR4 Ric |
| 0G | BU4323F | CMOS-IC | Voltage Detector 2,3V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0G | R3132Q16EA | CMOS-IC | Voltage Detector 1,6V, MR, -Reset Push-pull output | SOT-143 | 24vdh | 5a | VD5 Ric |
| 0G | RQ5RW56BA | VR-IC | LDO, CE, 5,6V±2%, 150mA | SOT-143R | 26vp | 5a | VR4 Ric |
| 0H | BU4324F | CMOS-IC | Voltage Detector 2,4V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0H | R3132Q17EA | CMOS-IC | Voltage Detector 1,7V, MR, -Reset Push-pull output | SOT-143 | 24vdh | 5a | VD5 Ric |
| 0H | RQ5RW57BA | VR-IC | LDO, CE, 5,7V±2%, 150mA | SOT-143R | 26vp | 5a | VR4 Ric |
| 0J | BU4325F | CMOS-IC | Voltage Detector 2,5V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0J | R3132Q18EA | CMOS-IC | Voltage Detector 1,8V, MR, -Reset Push-pull output | SOT-143 | 24vdh | 5a | VD5 Ric |
| 0J | RQ5RW58BA | VR-IC | LDO, CE, 5,8V±2%, 150mA | SOT-143R | 26vp | 5a | VR4 Ric |
| 0K | BU4326F | CMOS-IC | Voltage Detector 2,6V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0K | R3132Q19EA | CMOS-IC | Voltage Detector 1,9V, MR, -Reset Push-pull output | SOT-143 | 24vdh | 5a | VD5 Ric |
| 0K | RQ5RW59BA | VR-IC | LDO, CE, 5,9V±2%, 150mA | SOT-143R | 26vp | 5a | VR4 Ric |
| 0L | BU4327F | CMOS-IC | Voltage Detector 2,7V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0L | R3133Q10EA | CMOS-IC | Voltage Detector 1V, MR, Reset Push-pull output | SOT-143 | 24vdh | 5a | VD5 Ric |
| 0M | BU4328F | CMOS-IC | Voltage Detector 2,8V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0M | R3133Q11EA | CMOS-IC | Voltage Detector 1,1V, MR, Reset Push-pull output | SOT-143 | 24vdh | 5a | VD5 Ric |
| 0N | BU4329F | CMOS-IC | Voltage Detector 2,9V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0N | R3133Q12EA | CMOS-IC | Voltage Detector 1,2V, MR, Reset Push-pull output | SOT-143 | 24vdh | 5a | VD5 Ric |
| 0P | BU4330F | CMOS-IC | Voltage Detector 3V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0P | R3133Q13EA | CMOS-IC | Voltage Detector 1,3V, MR, Reset Push-pull output | SOT-143 | 24vdh | 5a | VD5 Ric |
| 0Q | BU4331F | CMOS-IC | Voltage Detector 3,1V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0Q | R3133Q14EA | CMOS-IC | Voltage Detector 1,4V, MR, Reset Push-pull output | SOT-143 | 24vdh | 5a | VD5 Ric |
| 0R | BU4332F | CMOS-IC | Voltage Detector 3,2V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0R | R3133Q15EA | CMOS-IC | Voltage Detector 1,5V, MR, Reset Push-pull output | SOT-143 | 24vdh | 5a | VD5 Ric |
| 0S | BU4333F | CMOS-IC | Voltage Detector 3,3V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0S | R3133Q16EA | CMOS-IC | Voltage Detector 1,6V, MR, Reset Push-pull output | SOT-143 | 24vdh | 5a | VD5 Ric |
| 0T | BU4334F | CMOS-IC | Voltage Detector 3,4V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0T | R3133Q17EA | CMOS-IC | Voltage Detector 1,7V, MR, Reset Push-pull output | SOT-143 | 24vdh | 5a | VD5 Ric |
| 0U | BU4335F | CMOS-IC | Voltage Detector 3,5V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0U | R3133Q18EA | CMOS-IC | Voltage Detector 1,8V, MR, Reset Push-pull output | SOT-143 | 24vdh | 5a | VD5 Ric |
| 0V | BU4336F | CMOS-IC | Voltage Detector 3,6V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0V | R3133Q19EA | CMOS-IC | Voltage Detector 1,9V, MR, Reset Push-pull output | SOT-143 | 24vdh | 5a | VD5 Ric |
| 0W | BU4337F | CMOS-IC | Voltage Detector 3,7V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0X | BU4338F | CMOS-IC | Voltage Detector 3,8V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0Y | BU4339F | CMOS-IC | Voltage Detector 3,9V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 0Z | BU4340F | CMOS-IC | Voltage Detector 4V, Reset Push-pull output | SOP-4 | 26vdf | VD3 | Rhm |
| 11 | MRF9511A | Si-npn | UHF, 20V, 100mA, 322mW, B=75..150, 8GHz | SOT-143 | 24tc | - | Mot |
| 12 | XC6213B122NR | VR-IC | LDO, CE, 1,2V±2%, 150mA | SSOT-24 | 26vn | 5c | VR4 Tor |
| 13 | XC6213B132NR | VR-IC | LDO, CE, 1,3V±2%, 150mA | SSOT-24 | 26vn | 5c | VR4 Tor |
| 14 | XC6213B142NR | VR-IC | LDO, CE, 1,4V±2%, 150mA | SSOT-24 | 26vn | 5c | VR4 Tor |
| 15 | MRF0211 | Si-npn | UHF, 30V, 70mA, 580mW, B=50..300, 5,5GHz | SOT-143 | 24tc | - | Mot |
| 15 | XC6213B152NR | VR-IC | LDO, CE, 1,5V±2%, 150mA | SSOT-24 | 26vn | 5c | VR4 Tor |
| 16 | XC6213B162NR | VR-IC | LDO, CE, 1,6V±2%, 150mA | SSOT-24 | 26vn | 5c | VR4 Tor |
| 17 | BAS125-07 | Si-diode | Dual, Schottky, 25V, 100mA, Vf<0.9V(35mA), Cd<1,1pF | SOT-143 | 24ce | - | Inf |
| 17 | XC6213B172NR | VR-IC | LDO, CE, 1,7V±2%, 150mA | SSOT-24 | 26vn | 5c | VR4 Tor |
| 17 | XC6217C082NR | VR-IC | LDO, -CE, 0,8V±2%, 200mA | SSOT-24 | 26vn | 5a | VR4 Tor |
| 18 | BFP181T | Si-npn | UHF, 20V, 20mA, 175mW, B=50..200, 8GHz | SOT-143 | 24tc | - | Tfk |



SMD semiconductor components in 5-pins cases
SMD-codes for semiconductor components in 5-pins cases

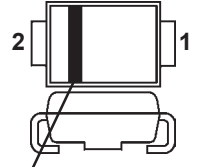
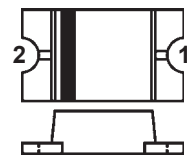
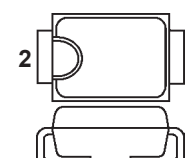
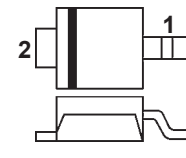
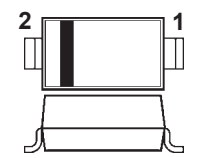
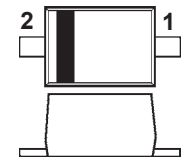
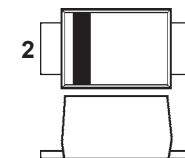
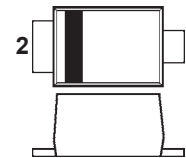
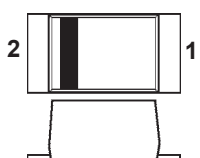
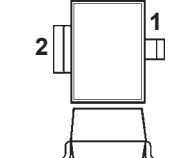
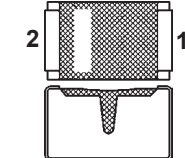
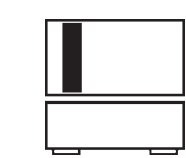
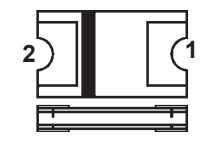
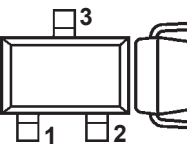
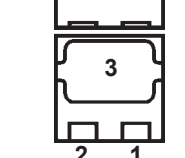
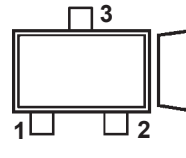
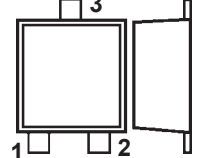
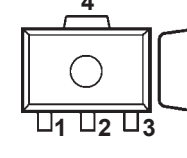
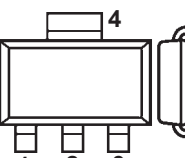
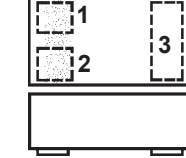
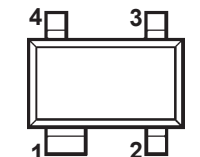
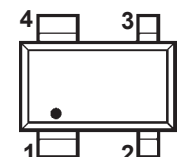
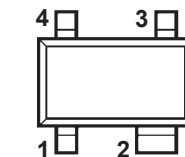
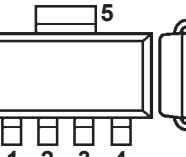
| SMD code | Type | Function | Short description | Case | Pin. | St. | Sch. | Mnf. |
|----------|--------------|----------|---|----------|-------|-----|------|------|
| 00 | R1223N252A | VR-IC | PWM/FM St-Dwn DC/DC Conv-Ctrl, CE, 2.5V, 300KHz, L-Pr. | SOT-23-5 | 28vn | 6g | - | Ric |
| 00 | RN5RF50BA | VR-IC | LRip, CE, 5V±2%, 1A* | SOT-23-5 | 28vw | 6g | VR6 | Ric |
| 00 | RN5RZ50BA | VR-IC | Low Noise, LDO, CE, 5V±2%, 100mA | SOT-23-5 | 28vrt | 6g | VR4 | Ric |
| 000 | XC6101A131MR | CMOS-IC | VDet 3.1V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 001 | XC6101A132MR | CMOS-IC | VDet 3.2V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 002 | XC6101A133MR | CMOS-IC | VDet 3.3V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 003 | XC6101A134MR | CMOS-IC | VDet 3.4V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 004 | XC6101A135MR | CMOS-IC | VDet 3.5V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 005 | XC6101A136MR | CMOS-IC | VDet 3.6V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 006 | XC6101A137MR | CMOS-IC | VDet 3.7V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 007 | XC6101A138MR | CMOS-IC | VDet 3.8V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 008 | R1160N081A | VR-IC | LDO, -CE, 0.8V±2%, 200mA | SOT-23-5 | 28vrw | 6g | VR4 | Ric |
| 008 | XC6101A139MR | CMOS-IC | VDet 3.9V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 009 | R1160N091A | VR-IC | LDO, -CE, 0.9V±2%, 200mA | SOT-23-5 | 28vrw | 6g | VR4 | Ric |
| 009 | XC6101A140MR | CMOS-IC | VDet 4.0V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00A | XC6101A141MR | CMOS-IC | VDet 4.1V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00B | XC6101A142MR | CMOS-IC | VDet 4.2V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00C | XC6101A143MR | CMOS-IC | VDet 4.3V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00D | XC6101A144MR | CMOS-IC | VDet 4.4V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00E | XC6101A145MR | CMOS-IC | VDet 4.5V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00F | XC6101A116MR | CMOS-IC | VDet 1.6V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00F | XC6101A146MR | CMOS-IC | VDet 4.6V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00H | XC6101A117MR | CMOS-IC | VDet 1.7V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00H | XC6101A147MR | CMOS-IC | VDet 4.7V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00K | XC6101A118MR | CMOS-IC | VDet 1.8V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00K | XC6101A148MR | CMOS-IC | VDet 4.8V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00L | XC6101A119MR | CMOS-IC | VDet 1.9V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00L | XC6101A149MR | CMOS-IC | VDet 4.9V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00M | XC6101A120MR | CMOS-IC | VDet 2.0V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00M | XC6101A150MR | CMOS-IC | VDet 5.0V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00N | XC6101A121MR | CMOS-IC | VDet 2.1V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00P | XC6101A122MR | CMOS-IC | VDet 2.2V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00R | XC6101A123MR | CMOS-IC | VDet 2.3V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00S | XC6101A124MR | CMOS-IC | VDet 2.4V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00T | XC6101A125MR | CMOS-IC | VDet 2.5V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00U | XC6101A126MR | CMOS-IC | VDet 2.6V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00V | XC6101A127MR | CMOS-IC | VDet 2.7V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00X | XC6101A128MR | CMOS-IC | VDet 2.8V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00Y | XC6101A129MR | CMOS-IC | VDet 2.9V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 00Z | XC6101A130MR | CMOS-IC | VDet 3.0V, 5%, Hst. -MR, -Reset PPO, Wt=6.25ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 01 | R1223N152C | VR-IC | PWM St-Dwn DC/DC Cnv-Ctr, CE, 1.5V, 300KHz, Latch-Pr. | SOT-23-5 | 28vn | 6g | - | Ric |
| 01 | RN5RF51BA | VR-IC | LRip, CE, 5.1V±2%, 1A* | SOT-23-5 | 28vw | 6g | VR6 | Ric |
| 01 | RN5RZ51BA | VR-IC | Low Noise, LDO, CE, 5.1V±2%, 100mA | SOT-23-5 | 28vrt | 6g | VR4 | Ric |
| 010 | R1160N101A | VR-IC | LDO, -CE, 1V±2%, 200mA | SOT-23-5 | 28vrw | 6g | VR4 | Ric |
| 010 | XC6101A231MR | CMOS-IC | VDet 3.1V, 5%, Hst. -MR, -Reset PPO, Wt=50ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 011 | R1160N111A | VR-IC | LDO, -CE, 1.1V±2%, 200mA | SOT-23-5 | 28vrw | 6g | VR4 | Ric |
| 011 | XC6101A232MR | CMOS-IC | VDet 3.2V, 5%, Hst. -MR, -Reset PPO, Wt=50ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 012 | R1160N121A | VR-IC | LDO, -CE, 1.2V±2%, 200mA | SOT-23-5 | 28vrw | 6g | VR4 | Ric |
| 012 | XC6101A233MR | CMOS-IC | VDet 3.3V, 5%, Hst. -MR, -Reset PPO, Wt=50ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 013 | R1160N131A | VR-IC | LDO, -CE, 1.3V±2%, 200mA | SOT-23-5 | 28vrw | 6g | VR4 | Ric |
| 013 | XC6101A234MR | CMOS-IC | VDet 3.4V, 5%, Hst. -MR, -Reset PPO, Wt=50ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 014 | R1160N141A | VR-IC | LDO, -CE, 1.4V±2%, 200mA | SOT-23-5 | 28vrw | 6g | VR4 | Ric |
| 014 | XC6101A235MR | CMOS-IC | VDet 3.5V, 5%, Hst. -MR, -Reset PPO, Wt=50ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 015 | R1116N151B | VR-IC | LDO, LN, CE, 1.5V±1.5%, 150mA | SOT-23-5 | 28vx | 6g | VR4 | Ric |
| 015 | R1160N151A | VR-IC | LDO, -CE, 1.5V±2%, 200mA | SOT-23-5 | 28vrw | 6g | VR4 | Ric |
| 015 | XC6101A236MR | CMOS-IC | VDet 3.6V, 5%, Hst. -MR, -Reset PPO, Wt=50ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 016 | R1116N161B | VR-IC | LDO, LN, CE, 1.6V±1.5%, 150mA | SOT-23-5 | 28vx | 6g | VR4 | Ric |
| 016 | R1160N161A | VR-IC | LDO, -CE, 1.6V±2%, 200mA | SOT-23-5 | 28vrw | 6g | VR4 | Ric |
| 016 | XC6101A237MR | CMOS-IC | VDet 3.7V, 5%, Hst. -MR, -Reset PPO, Wt=50ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 017 | R1116N171B | VR-IC | LDO, LN, CE, 1.7V±1.5%, 150mA | SOT-23-5 | 28vx | 6g | VR4 | Ric |
| 017 | R1160N171A | VR-IC | LDO, -CE, 1.7V±2%, 200mA | SOT-23-5 | 28vrw | 6g | VR4 | Ric |
| 017 | XC6101A238MR | CMOS-IC | VDet 3.8V, 5%, Hst. -MR, -Reset PPO, Wt=50ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 018 | R1116N181B | VR-IC | LDO, LN, CE, 1.8V±1.5%, 150mA | SOT-23-5 | 28vx | 6g | VR4 | Ric |
| 018 | R1160N181A | VR-IC | LDO, -CE, 1.8V±2%, 200mA | SOT-23-5 | 28vrw | 6g | VR4 | Ric |
| 018 | XC6101A239MR | CMOS-IC | VDet 3.9V, 5%, Hst. -MR, -Reset PPO, Wt=50ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 019 | R1116N191B | VR-IC | LDO, LN, CE, 1.9V±1.5%, 150mA | SOT-23-5 | 28vx | 6g | VR4 | Ric |
| 019 | R1160N191A | VR-IC | LDO, -CE, 1.9V±2%, 200mA | SOT-23-5 | 28vrw | 6g | VR4 | Ric |
| 019 | XC6101A240MR | CMOS-IC | VDet 4.0V, 5%, Hst. -MR, -Reset PPO, Wt=50ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 01A | APR3001-15B | CMOS-IC | Voltage detector, 1.5V, -Reset Push-pull output | SOT-23-5 | 28vdm | 3b | VD7 | Anp |
| 01A | XC6101A241MR | CMOS-IC | VDet 4.1V, 5%, Hst. -MR, -Reset PPO, Wt=50ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 01B | APR3001-17B | CMOS-IC | Voltage detector, 1.75V, -Reset Push-pull output | SOT-23-5 | 28vdm | 3b | VD7 | Anp |
| 01B | XC6101A242MR | CMOS-IC | VDet 4.2V, 5%, Hst. -MR, -Reset PPO, Wt=50ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |
| 01C | APR3001-23B | CMOS-IC | Voltage detector, 2.32V, -Reset Push-pull output | SOT-23-5 | 28vdm | 3b | VD7 | Anp |
| 01C | R1182N121B | VR-IC | LDO, CE, 1.2V±2%, 150mA | SOT-23-5 | 28vrt | 6g | VR4 | Ric |
| 01C | XC6101A243MR | CMOS-IC | VDet 4.3V, 5%, Hst. -MR, -Reset PPO, Wt=50ms, Rt=3.13ms | SOT-23-5 | 28xd | 6g | | Tor |



SMD semiconductor components in 6- and more pins cases
SMD-codes for semiconductor components in 6- and more pins cases

























| SMD code | Type | Function | Short description | Case | Pin. | St. | Sch. | Mnf. |
|----------|----------------|-------------|---|-----------|-------|---------|------|------|
| 005 | FAN7005MU | Lin-IC | 2xAF PA, 2.7..5.5V, 2x300mW(5V/8Q), shutdown | MINISO-8 | 33 | PA16 | F | |
| 005 | FAN7005MX | Lin-IC | 2xAF PA, 2.7..5.5V, 2x300mW(5V/8Q), shutdown | SO-8 | 33 | PA15 | F | |
| 024 | FAN7024MU(MUX) | Lin-IC | AF PA, BTL, 2.3..5.5V, 675mW(5V/8Q), shutdown | MINISO-8 | 33 | PA11 | F | |
| 05 | R1163D151E | VR-IC | LDO, CE, 1.5V±1.5%, 150mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 05/50 | SMS05 | TVS | Quad, 5V, 24A, 350W(1ms) | SOT-23-6L | 33xd | 7b - | Smt | |
| 06 | R1163D161E | VR-IC | LDO, CE, 1.6V±1.5%, 150mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 06H | MUN5131DW | Si-pnp-Digi | Dual, Sw, 2x50V, 100mA, 400mW, R1/R2=2k2/2k2 | SOT-363 | 33tg | - | Mot | |
| 07 | R1163D171E | VR-IC | LDO, CE, 1.7V±1.5%, 150mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 08 | R1163D181E | VR-IC | LDO, CE, 1.8V±1.5%, 150mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 09 | R1163D191E | VR-IC | LDO, CE, 1.9V±1.5%, 150mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 0A | MUN5111DW | Si-pnp-Digi | Dual, Sw, 2x50V, 100mA, 400mW, R1/R2=10/10k | SOT-363 | 33tg | - | Mot | |
| 0A | R1161D281A5 | VR-IC | LDO, -CE, 2.85V±2%, 350mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 0A | R5326N001B | VR-IC | LDO, Dual out, sep. CE, Vo1=2V, Vo2=2V, 150mA | SOT-23-6 | 33rg | 7f | Ric | |
| 0B | MUN5112DW | Si-pnp-Digi | Dual, Sw, 2x50V, 100mA, 400mW, R1/R2=22/22k | SOT-363 | 33tg | - | Mot | |
| 0B | R1161D101A | VR-IC | LDO, -CE, 1V±2%, 350mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 0B | R5326N002B | VR-IC | LDO, Dual out, sep. CE, Vo1=2.8V, Vo2=2.8V, 150mA | SOT-23-6 | 33rg | 7f | Ric | |
| 0C | MUN5113DW | Si-pnp-Digi | Dual, Sw, 2x50V, 100mA, 400mW, R1/R2=47k/47k | SOT-363 | 33tg | - | Mot | |
| 0C | R1161D201A | VR-IC | LDO, -CE, 2V±2%, 350mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 0C | R5326N003B | VR-IC | LDO, Dual out, sep. CE, Vo1=1.8V, Vo2=3V, 150mA | SOT-23-6 | 33rg | 7f | Ric | |
| 0D | MUN5114DW | Si-pnp-Digi | Dual, Sw, 2x50V, 100mA, 400mW, R1/R2=10/47k | SOT-363 | 33tg | - | Mot | |
| 0D | R1161D301A | VR-IC | LDO, -CE, 3V±2%, 350mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 0D | R5326N004B | VR-IC | LDO, Dual out, sep. CE, Vo1=2.5V, Vo2=3V, 150mA | SOT-23-6 | 33rg | 7f | Ric | |
| 0E | MUN5115DW | Si-pnp-Digi | Dual, Sw, 2x50V, 100mA, 400mW, R1=10k | SOT-363 | 33tg | - | Mot | |
| 0E | R1161D281B | VR-IC | LDO, CE, 2.8V±2%, 350mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 0E | R5326N005B | VR-IC | LDO, Dual out, sep. CE, Vo1=1.8V, Vo2=2.5V, 150mA | SOT-23-6 | 33rg | 7f | Ric | |
| 0F | MUN5116DW | Si-pnp-Digi | Dual, Sw, 2x50V, 100mA, 400mW, R1=4k7 | SOT-363 | 33tg | - | Mot | |
| 0F | R1161D101B | VR-IC | LDO, CE, 1V±2%, 350mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 0F | R5326N006B | VR-IC | LDO, Dual out, sep. CE, Vo1=1.8V, Vo2=3.3V, 150mA | SOT-23-6 | 33rg | 7f | Ric | |
| 0G | MUN5130DW | Si-pnp-Digi | Dual, Sw, 2x50V, 100mA, 400mW, R1/R2=1k/1k0 | SOT-363 | 33tg | - | Mot | |
| 0G | R1161D201B | VR-IC | LDO, CE, 2V±2%, 350mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 0G | R5326N007B | VR-IC | LDO, Dual out, sep. CE, Vo1=2.5V, Vo2=2.8V, 150mA | SOT-23-6 | 33rg | 7f | Ric | |
| 0H | R1161D301B | VR-IC | LDO, CE, 3V±2%, 350mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 0H | R5326N008B | VR-IC | LDO, Dual out, sep. CE, Vo1=1.2V, Vo2=1.2V, 150mA | SOT-23-6 | 33rg | 7f | Ric | |
| 0J | MUN5132DW | Si-pnp-Digi | Dual, Sw, 2x50V, 100mA, 400mW, R1/R2=4k/4k7 | SOT-363 | 33tg | - | Mot | |
| 0J | R1161D101D | VR-IC | LDO, CE, auto discharge, 1V±2%, 350mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 0J | R1161D281D | VR-IC | LDO, CE, auto discharge, 2.8V±2%, 350mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 0J | R5326N009B | VR-IC | LDO, Dual out, sep. CE, Vo1=1.5V, Vo2=1.6V, 150mA | SOT-23-6 | 33rg | 7f | Ric | |
| 0K | MUN5133DW | Si-pnp-Digi | Dual, Sw, 2x50V, 100mA, 400mW, R1/R2=4k7/47k | SOT-363 | 33tg | - | Mot | |
| 0K | R5326N010B | VR-IC | LDO, Dual out, sep. CE, Vo1=1.5V, Vo2=2.8V, 150mA | SOT-23-6 | 33rg | 7f | Ric | |
| 0L | MUN5134DW | Si-pnp-Digi | Dual, Sw, 2x50V, 100mA, 400mW, R1/R2=22k/47k | SOT-363 | 33tg | - | Mot | |
| 0L | R1161D201D | VR-IC | LDO, CE, auto discharge, 2V±2%, 350mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 0L | R5326N011B | VR-IC | LDO, Dual out, sep. CE, Vo1=3V, Vo2=3V, 150mA | SOT-23-6 | 33rg | 7f | Ric | |
| 0M | R1161D301D | VR-IC | LDO, CE, auto discharge, 3V±2%, 350mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 0M | R5326N012B | VR-IC | LDO, Dual out, sep. CE, Vo1=3.1V, Vo2=3.1V, 150mA | SOT-23-6 | 33rg | 7f | Ric | |
| 0N | MUN5136DW | Si-pnp-Digi | Dual, Sw, 2x50V, 100mA, 400mW, R1/R2=100k/100k | SOT-363 | 33tg | - | Mot | |
| 0N | R5326N013B | VR-IC | LDO, Dual out, sep. CE, Vo1=2.7V, Vo2=1.8V, 150mA | SOT-23-6 | 33rg | 7f | Ric | |
| 0P | MUN5137DW | Si-pnp-Digi | Dual, Sw, 2x50V, 100mA, 400mW, R1/R2=47k/22k | SOT-363 | 33tg | - | Mot | |
| 0P | R5326N014B | VR-IC | LDO, Dual out, sep. CE, Vo1=1.8V, Vo2=2.6V, 150mA | SOT-23-6 | 33rg | 7f | Ric | |
| 0Q | R5326N015B | VR-IC | LDO, Dual out, sep. CE, Vo1=3.3V, Vo2=3.3V, 150mA | SOT-23-6 | 33rg | 7f | Ric | |
| 0R | R5326N016B | VR-IC | LDO, Dual out, sep. CE, Vo1=2.85V, Vo2=2.85V, 150mA | SOT-23-6 | 33rg | 7f | Ric | |
| 10 | R1163D201E | VR-IC | LDO, CE, 2V±1.5%, 150mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 105 | FC105 | Si-pnp-Digi | Dual, Sw, 50V, 100mA, 200mW, 200MHz, R1/R2=47k/47k | SOT-363 | 33tg | - | Say | |
| 106 | FC106 | Si-pnp-Digi | Dual, Sw, 50V, 100mA, 200mW, 200MHz, R1/R2=47k/47k | SOT-363 | TD3 | - | Say | |
| 10N02Z | MMSF10N02Z | n-MOS*+e | V-MOS, LogL, 20V, 7A, 2.5W, <16mΩ(5A), 65/325ns | SO-8 | 33fs | 7b - | Ons | |
| 11 | MUN5311DW | Si-n/p-Digi | Dual, Sw, 50V, 100mA, 200mW, R1/R2=10/10k | SOT-363 | 33vrc | - | Mot | |
| 11 | R1163D211E | VR-IC | LDO, CE, 2.1V±1.5%, 150mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 12 | MUN5312DW | Si-n/p-Digi | Dual, Sw, 50V, 100mA, 200mW, R1/R2=22/22k | SOT-363 | 33tx | - | Mot | |
| 12 | R1163D221E | VR-IC | LDO, CE, 2.2V±1.5%, 150mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 12/Z1 | SMS12 | TVS | Quad, 12V, 15A, 350W(1ms) | SOT-23-6L | 33xd | 7b - | Smt | |
| 12A | MMQA12V | TVS | Quad, 12V, 24W(1ms) | SC-74 | 33dx | 7b - | Ons | |
| 13 | MUN5313DW | Si-n/p-Digi | Dual, Sw, 50V, 100mA, 200mW, R1/R2=47k/47k | SOT-363 | 33tx | - | Mot | |
| 13 | R1163D231E | VR-IC | LDO, CE, 2.3V±1.5%, 150mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 13A | MMQA13V1 | TVS | Quad, 13V, 24W(1ms) | SC-74 | 33dx | 7b - | Ons | |
| 13A | TK74013L | VR-IC | Dual, LDO, Separate CE, 1.3+1.3V±2%, 300mA | SOT-23L-8 | 33uh | - | Tok | |
| 13F | BC847BPDW | Si-n/p | Dual, GP, 50V, 100mA, 250mW, B=200..450, >100MHz | SOT-363 | 33td | - | Ons | |
| 13G | BC847CPDW | Si-n/p | Dual, GP, 50V, 100mA, 250mW, B=420..800, >100MHz | SOT-363 | 33td | - | Ons | |
| 13K | BC848BPDW | Si-n/p | Dual, GP, 30V, 100mA, 250mW, B=200..450, >100MHz | SOT-363 | 33td | - | Ons | |
| 13L | BC848CPDW | Si-n/p | Dual, GP, 30V, 100mA, 250mW, B=420..800, >100MHz | SOT-363 | 33td | - | Ons | |
| 13P | TK11213BM | VR-IC | LDO, CE, 1.3V±2%, 150mA | SOT-23L-6 | 33vf | 7b VR7 | Tok | |
| 13t | BC847BPN | Si-n/p | Dual, GP, 50V, 100mA, 200mW, B=200..450, >100MHz | SOT-363 | 33td | - | Phi | |
| 14 | MUN5314DW | Si-n/p-Digi | Dual, Sw, 50V, 100mA, 200mW, R1/R2=10/47k | SOT-363 | 33tx | - | Mot | |
| 14 | R1163D241E | VR-IC | LDO, CE, 2.4V±1.5%, 150mA | SON-6 | 35vrc | 7g VR10 | Ric | |
| 1460A1 | LT1460ACS8-10 | Vref-IC | µPower, Precision, Series, 10V, 0.075% | S8 | 33af | VR1 | Ltc | |
| 1460A2 | LT1460ACS8-2.5 | Vref-IC | µPower, Precision, Series, 2.5V, 0.075% | S8 | 33af | VR1 | Ltc | |
| 1460A5 | LT1460ACS8-5 | Vref-IC | µPower, Precision, Series, 5V, 0.075% | S8 | 33af | VR1 | Ltc | |

Conventional cases drawings
Cases pin assignments
Pinouts

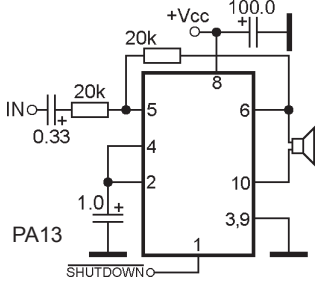
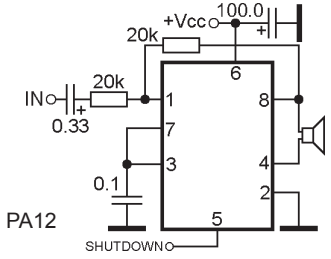
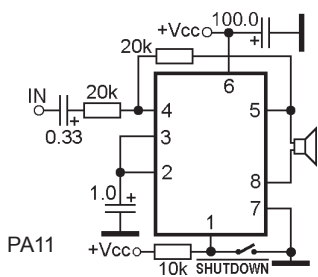
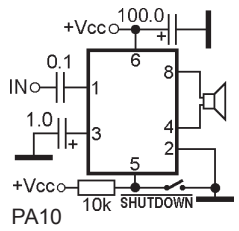
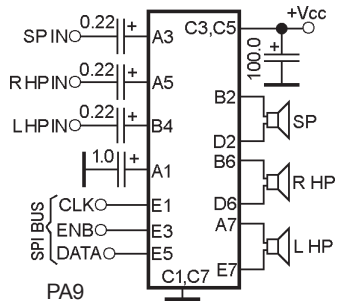
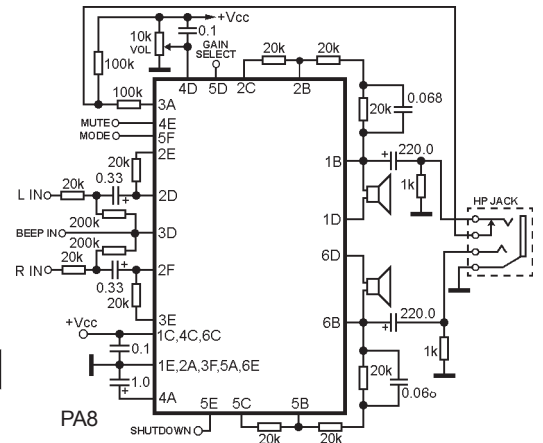
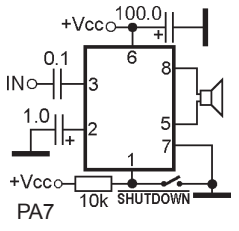
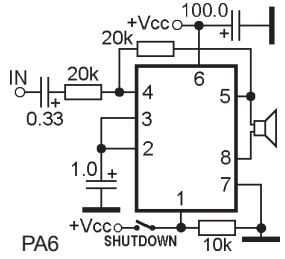
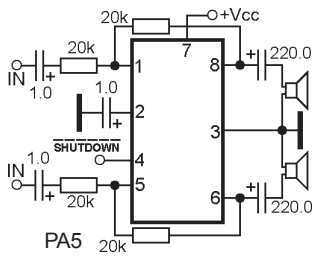
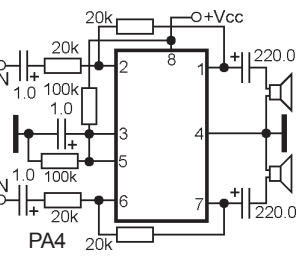
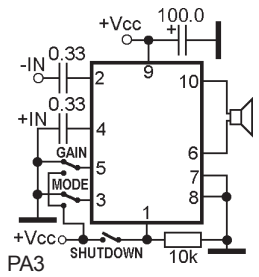
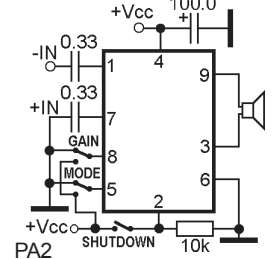
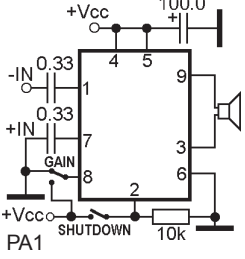
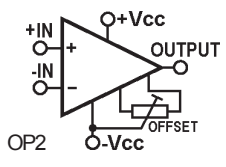
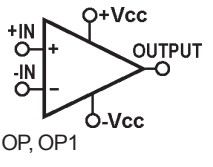
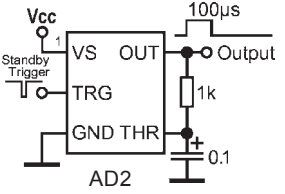
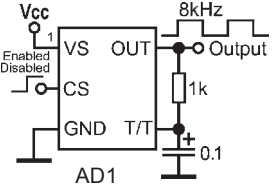
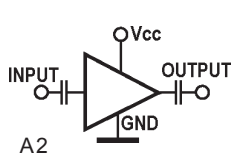
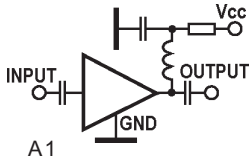
| | | | |
|--|---|---|--|
|  <p>Cathode band</p> <p>Fig.1 Top view</p> |  <p>Fig.2 Top view</p> |  <p>Fig.3 Top view</p> |  <p>Fig.4 Top view</p> |
|  <p>Fig.5 Top view</p> |  <p>Fig.6 Top view</p> |  <p>Fig.7 Top view</p> |  <p>Fig.8 Top view</p> |
|  <p>Fig.10 Top view</p> |  <p>Fig.11 Top view</p> |  <p>Fig.12 Top view</p> |  <p>Fig.13 Top view</p> |
|  <p>Fig.14 Top view</p> |  <p>Fig.16 Top view</p> |  <p>Fig.17 Bottom view</p> |  <p>Fig.18 Top view</p> |
|  <p>Fig.19 Top view</p> |  <p>Fig.20 Top view</p> |  <p>Fig.21 Top view</p> |  <p>Fig.22 Top view</p> |
|  <p>Fig.24 Top view</p> |  <p>Fig.25 Top view</p> |  <p>Fig.26 Top view</p> |  <p>Fig.27 Top view</p> |

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----|------------|----------|------------|----------|----------|----------|---------|------|
| a | X | X | | | | | | |
| aa | Input | GND | Vcc/Output | | | | | |
| ab | Input | GND | GND | Output | GND | Vcc | | |
| ac | Vcc | GND | Input | GND | GND | Output | GND | GND |
| ad | Input | GND | Vcc/Output | GND | | | | |
| ae | Input | Vcc | GND | Output | GND | GND | | |
| af | N/C | Vinput | N/C | GND | N/C | Voutput | N/C | N/C |
| ag | Contact | Contact | N/C | | | | | |
| ak | N/C | K | A | | | | | |
| am | Vcc/Output | GND | Input | GND | | | | |
| ba | K(A) | K(A) | | | | | | |
| bb | K1 | K2 | K3 | A3 | A2 | A1 | | |
| bc | K1 | Common A | K2 | K3 | K4 | | | |
| be | K1 | K2 | A3/A4 | K3 | K4 | A1/A2 | | |
| bf | K1 | Common A | K2 | K3 | K4 | K5 | | |
| bg | K1 | K2 | A2 | N/C | A1 | | | |
| bh | A1 | Common K | A2 | A3 | A4 | | | |
| bi | A | K | A | A | K | A | | |
| bj | A1 | A2 | K3/K4 | A3 | A4 | K1/K2 | | |
| bk | A1 | K2 | K3/A4 | A3 | K4 | K1/A2 | | |
| bn | OVP | Vinput | CE | AGND | N/C | Feedback | SW | PGND |
| bp | K | K | A | A | K | K | | |
| bq | GND | Voutput | Lx | | | | | |
| br | GND | Voutput | Ext | | | | | |
| bs | A1 | Common K | A2 | Common K | | | | |
| bt | K1 | N/C | K2 | Common A | | | | |
| bu | A1 | N/C | A2 | Common K | | | | |
| bv | A1 | N/C | K2 | K1/A2 | | | | |
| bw | A1 | Common K | A2 | A3 | Common K | A4 | | |
| bx | A1 | K1/A2 | K2 | K3 | A3/K4 | A4 | | |
| by | K1 | A1/K2 | A2 | K3 | A3/K4 | A4 | | |
| bz | K | A | K | | | | | |
| c | K1 | Common A | K2 | K3 | N/C | K4 | | |
| ca | Q | GND | +Input | -Input | Output | | | |
| cb | Vcc | Shutdown | Input L | Output L | GND | Output R | Input R | Cext |
| cd | K1/A2/K3 | K2 | A3 | A1 | | | | |
| ce | K1 | K2 | A2 | A1 | | | | |
| cf | GND | Vinput | Vinput | Vinput | Voutput | Voutput | Voutput | N/C |
| cg | GND | Voutput | Vinput | | | | | |
| ch | Voutput | GND | Vinput | | | | | |
| cj | Voutput | Vinput | GND | | | | | |
| ck | Voutput | Adjust | Vinput | | | | | |
| cm | Adjust | Vinput | Voutput | | | | | |
| cn | Adjust | Voutput | Vinput | | | | | |
| co | ±Reset | ±MR | Vcc | GND | | | | |
| cp | -Reset | GND | -MR | WDI | Vcc | | | |
| cq | ±Reset | GND | ±MR1 | Vcc | ±MR2 | | | |
| cs | A1 | K1 | A2 | K2 | | | | |
| ct | A1 | K1 | K2 | A2 | | | | |
| cu | Vinput | GND | ±CE | Shutdown | Voutput | | | |
| cv | Voutput | Shutdown | ±CE | Vinput | | | | |
| cw | Shutdown | GND | ±CE | Vinput | Voutput | | | |
| d | A | K | | | | | | |
| da | A1/K4 | A2/K1 | A3/K2 | A4/K3 | | | | |
| db | A1 | K1/A2 | K2 | N/C | | | | |

SMD-codes marking style

| | | | |
|---|--|---|---|
| <p>1a</p>  <p>SMD code</p> | <p>1b</p>  <p>SMD code</p> | <p>1c</p>  <p>SMD code Lot number</p> | <p>1d</p>  <p>SMD code Data code (Y-Year, M-month)</p> |
| <p>1e</p>  <p>SMD code</p> | <p>1f</p>  <p>SMD code Assembly location Data code (Y-Year, W-week) Wafer lot</p> | <p>1g</p>  <p>SMD code Data code</p> | <p>1h</p>  <p>SMD code Data code</p> |
| <p>1i</p>  <p>SMD code Data code (N-Year, M-month)</p> | <p>1j</p>  <p>SMD code</p> | <p>1k</p>  <p>Manufacturer logo SMD code Data code (N-Year, M-month)</p> | <p>1l</p>  <p>Manufacturer logo SMD code Data code (N-Year, M-month)</p> |
| <p>1m</p>  <p>Manufacturer logo SMD code Data code</p> | <p>1n</p>  <p>SMD code Manufacturer logo</p> | <p>1p</p>  <p>SMD code Manufacturer logo</p> | <p>1q</p>  <p>Manufacturer logo SMD code Data code (Y-Year, M-month)</p> |
| <p>1r</p>  <p>Manufacturer logo SMD code Data code (Y-Year, M-month)</p> | <p>1s</p>  <p>SMD code Data code (Y-Year, W-week)</p> | <p>1t</p>  <p>SMD code</p> | <p>1u</p>  <p>SMD code Data code</p> |
| <p>1v</p>  <p>SMD code</p> | <p>1w</p>  <p>Manufacturer logo SMD code</p> | <p>1x</p>  <p>Manufacturer logo SMD code Data code</p> | <p>1y</p>  <p>Manufacturer logo SMD code</p> |

Sample schematics diagrams



Logos, contact and web-adresses of the manufacturers



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