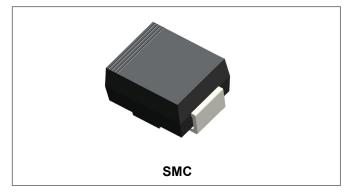






SMCJ SERIES SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR



Features

- Glass Passivated Die Construction
- 1500W Peak Pulse Power Dissipation
- Uni- and Bi-Directional Versions Available
- Excellent Clamping Capability
- Fast Response Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O
- This is a Pb Free Device
- All SMC Parts are Traceable to the Wafer Lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: SMC Low Profile Molded Plastic
- Terminals: Solder Plated , Solderable per MIL-STD 750, Method 2026
- Polarity: Color band denoted positive end (cathode) except Bidirectional
- Weight:0.21 grams(approx.)

Maximum Ratings and Thermal Characteristics@TA=25°C unless otherwise specified

| Parameter | Symbol | Value | Units |
|--|----------------------------------|-------------|-------|
| Peak Pulse Power Dissipation on 10/1000 us waveform (NOTE 1, 2, Fig.1) | P _{PPM} | 1500 | W |
| Peak Pulse Current of on 10/1000 us waveform (Note 1,Fig 3) | ІРРМ | SEE TABLE 1 | А |
| Peak Forward Surge Current, 8.3ms Single Half Sine Wave (Note 2),(Note 3) | I _{FSM} | 200 | Α |
| Typical Thermal Resistance Junction to Lead | $R_{	heta JL}$ | 15 | °C/W |
| Typical Thermal Resistance Junction to Ambient | $R_{\theta JA}$ | 75 | °C/W |
| Operating Junction and Storage Temperature Range | T _J ,T _{STG} | -55 to 150 | °C |

Notes: 1. Non-repetitive current pulse, per Fig. 3 and derated above TA = 25°C per Fig. 2.

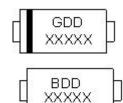
- 2. Mounted on 8.0x8.0mm Copper Pads to each terminal.
- 3. Measured on 8.3ms single half sine wave or equivalent square wave, duty cycle=4pulses per minute maximum.

Ordering Information

| Device | Package | Shipping |
|-------------|---------------|----------------|
| SMCJ SERIES | SMC (Pb-Free) | 3000pcs / reel |

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



GDD/BDD = Marking code
YY = Year
WW = Week
L = Lot Number

Where XXXXX is YYWWL

Cautions: Molding resin
Epoxy resin UL:94V-0

- China Germany Korea
 - http://www.smc-diodes.com -
- Singapore United States •
- sales@ smc-diodes.com •







Electrical Characteristics@TA=25°C unless otherwise specified

UNI-DIRECTIONAL 1500 WATT SURFACE MOUNT TVS

| INI-DIRECTIONAL PART NO. | DEVICE MARKING CODE | REVERSE STAND-OFF VOLTAGE VRWM (V) | BREAKDOWN VOLTAGE VBR (V) MIN. @IT | BREAKDOWN VOLTAGE VBR (V) MAX. @IT | TEST CURRENT IT (mA) | MAXIMUM CLAMPING VOLTAGE @Ipp Vc (V) | PEAK PULSE CURRENT Ipp (A) | REVERSE LEAKAGE @VRWM IF (uA) |
|-----------------------------|---------------------------|---|---|---|----------------------------|---|----------------------------------|--|
| SMCJ5.0 | GDD | 5.00 | 6.40 | 7.82 | 10 | 9.6 | 156.2 | 1000 |
| SMCJ5.0A | GDE | 5.00 | 6.40 | 7.07 | 10 | 9.2 | 163.0 | 1000 |
| SMCJ6.0 SMCJ6.0A | GDF GDG | 6.00 | 6.67 6.67 | 8.15 7.37 | 10 | 11.4 10.3 | 131.6 145.6 | 1000 1000 |
| SMCJ6.0A | GDH | 6.50 | 7.22 | 8.82 | 10 | 12.3 | 122.0 | 500 |
| SMCJ6.5A | GDK | 6.50 | 7.22 | 7.98 | 10 | 11.2 | 133.9 | 500 |
| SMCJ7.0 | GDL | 7.00 | 7.78 | 9.51 | 10 | 13.3 | 112.8 | 200 |
| MCJ7.0A | GDM | 7.00 | 7.78 | 8.60 | 10 | 12.0 | 125.0 | 200 |
| SMCJ7.5 | GDN | 7.50 | 8.33 | 10.18 | 1 | 14.3 | 104.9 | 100 |
| SMCJ7.5A | GDP | 7.50 | 8.33 | 9.21 | 1 | 12.9 | 116.3 | 100 |
| SMCJ8.0 | GDQ | 8.00 | 8.99 | 10.99 | 1 | 15.0 | 100.0 | 50 |
| SMCJ8.0A | GDR | 8.00 | 8.99 | 9.94 | | 13.6 | 110.3 | 50 |
| SMCJ8.5 SMCJ8.5A | GDS GDT | 8.50 8.50 | 9.44 9.44 | 11.54 10.43 | 1 | 15.9 14.4 | 94.3 104.2 | 25 25 |
| SMCJ9.0 | GDU | 9.00 | 10.00 | 12.22 | i | 16.9 | 88.7 | 10 |
| SMCJ9.0A | GDV | 9.00 | 10.00 | 11.05 | 1 | 15.4 | 97.4 | 10 |
| SMCJ10 | GDW | 10.00 | 11.10 | 13.57 | 1 | 18.8 | 79.8 | 5 |
| SMCJ10A | GDX | 10.00 | 11.10 | 12.27 | 1 | 17.0 | 88.2 | 5 |
| SMCJ 11 | GDY | 11.00 | 12.20 | 14.91 | 1 | 20.1 | 74.6 | 5 |
| SMCJ11A | GDZ | 11.00 | 12.20 | 13.48 | | 18.2 | 82.4 | 5 |
| SMCJ12 | GED | 12.00 | 13.30 | 16.26 | 1 | 22.0 | 68.2 | 5 |
| SMCJ12A | GEE | 12.00 | 13.30 | 14.70 | 1 | 19.9 | 75.3 | 5 |
| SMCJ13 SMCJ13A | GEF GEG | 13.00 13.00 | 14.40 14.40 | 17.60 15.92 | 1 | 23.8 21.5 | 63.0 69.7 | 5 5 |
| SMCJ13A | GEH | 14.00 | 15.60 | 19.07 | - i | 25.8 | 58.1 | 5 |
| SMCJ 14 SMCJ 14A | GEK | 14.00 | 15.60 | 17.24 | i | 23.2 | 64.7 | 5 |
| SMCJ15 | GEL | 15.00 | 16.70 | 20.41 | 1 | 26.9 | 55.8 | 5 |
| SMCJ15A | GEM | 15.00 | 16.70 | 18.46 | 1 | 24.4 | 61.5 | 5 |
| SMCJ16 | GEN | 16.00 | 17.80 | 21.76 | 1 | 28.8 | 52.1 | 5 |
| SMCJ16A | GEP | 16.00 | 17.80 | 19.67 | 1 | 26.0 | 57.7 | 5 |
| SMCJ17 | GEQ | 17.00 | 18.90 | 23.10 | 1 | 30.5 | 49.2 | 5 |
| SMCJ17A | GER | 17.00 | 18.90 | 20.89 | | 27.6 | 53.3 | 5 |
| SMCJ18 SMCJ18A | GES GET | 18.00 18.00 | 20.00 20.00 | 24.44 22.11 | 1 | 32.2 29.2 | 46.6 51.4 | 5 |
| SMCJ18A | GEU | 20.00 | 22.20 | 27.13 | 1 | 35.8 | 41.9 | 5 5 |
| SMCJ20A | GEV | 20.00 | 22.20 | 24.54 | 1 | 32.4 | 46.3 | 5 |
| SMCJ20A SMCJ22 | GEW | 22.00 | 24.40 | 29.82 | - i - | 39.4 | 38.1 | 5 |
| SMCJ22A | GEX | 22.00 | 24.40 | 26.97 | 1 | 35.5 | 42.2 | 5 |
| SMCJ24 | GEY | 24.00 | 26.70 | 32.63 | 1 | 43.0 | 34.9 | 5 |
| SMCJ24A | GEZ | 24.00 | 26.70 | 29.51 | . 1 | 38.9 | 38.6 | 5 |
| SMCJ26 | GFD | 26.00 | 28.90 | 35.32 | 1 | 46.6 | 32.2 | 5 |
| SMCJ26A | GFE | 26.00 | 28.90 | 31.94 | 1 | 42.1 | 35.6 | 5 |
| SMCJ28 | GFF | 28.00 | 31.10 | 38.01 | 1 | 50.0 | 30.0 | 5 |
| SMCJ28A | GFG | 28.00 | 31.10 | 34.37 | 1 | 45.4 | 33.0 | 5 |
| SMCJ30 | GFH | 30.00 | 33.30 | 40.70 | 1 | 53.5 | 28.0 | 5 |
| SMCJ30A SMCJ33 | GFK GFL | 30.00 33.00 | 33.30 36.70 | 36.81 44.86 | 1 | 48.4 59.0 | 31.0 25.2 | 5 5 |
| SMCJ33A | GFM | 33.00 | 36.70 | 40.56 | 1 | 53.3 | 28.1 | 5 |
| SMCJ36 | GFN | 36.00 | 40.00 | 48.89 | i | 64.3 | 23.3 | 5 |
| SMCJ36A | GFP | 36.00 | 40.00 | 44.21 | i | 58.1 | 25.8 | 5 |
| SMCJ40 | GFQ | 40.00 | 44.40 | 54.27 | 1 | 71.4 | 21.0 | 5 |
| SMCJ40A | GFR | 40.00 | 44.40 | 49.07 | 1 | 64.5 | 23.2 | 5 |
| SMCJ43 | GFS | 43.00 | 47.80 | 58.42 | 1 | 76.6 | 19.6 | 5 |
| SMCJ43A | GFT | 43.00 | 47.80 | 52.83 | .1 | 69.4 | 21.6 | 5 |
| SMCJ45 | GFU | 45.00 | 50.00 | 61.11 | 1 | 80.3 | 18.7 | 5 |
| SMCJ45A | GFV | 45.00 | 50.00 | 55.26 | | 72.7 | 20.6 | 5 |
| SMCJ48 SMCJ48A | GFW GFX | 48.00 48.00 | 53.30 53.30 | 65.14 58.91 | 1 | 85.5 77.4 | 17.5 19.4 | 5 5 |
| SMCJ48A SMCJ51 | GFY | 51.00 | 56.70 | 69.30 | 1 | 91.1 | 19.4 | 5 |
| SMCJ51A | GFZ | 51.00 | 56.70 | 62.67 | 1 | 82.4 | 18.2 | 5 |
| SMCJ51A | GGD | 54.00 | 60.00 | 73.33 | | 96.3 | 15.6 | 5 |
| SMCJ54A | GGE | 54.00 | 60.00 | 66.32 | i | 87.1 | 17.2 | 5 |
| SMCJ58 | GGF | 58.00 | 64.40 | 78.71 | 1 | 103.0 | 14.6 | 5 |
| SMCJ58A | GGG | 58.00 | 64.40 | 71.18 | . 1 | 93.6 | 16.0 | 5 |
| SMCJ60 | GGH | 60.00 | 66.70 | 81.52 | 1 | 107.0 | 14.0 | 5 |
| SMCJ60A | GGK | 60.00 | 66.70 | 73.72 | 1 | 96.8 | 15.5 | 5 |
| SMCJ64 SMCJ64A | GGL | 64.00 | 71.10 | 86.90 | 1 | 114.0 | 13.2 | 5 |
| SMCJ64A SMCJ70 | GGM | 64.00 70.00 | 71.10 77.80 | 78.58 95.09 | 1 1 | 103.0 125.0 | 14.6 | 5 |
| SMCJ70 SMCJ70A | GGN | 70.00 | 77.80 | 95.09 85.99 | 1 | 125.0 | 12.0 | 5 5 |
| SMCJ75 | GGQ | 75.00 | 83.30 | 101.81 | i | 134.0 | 11.2 | 5 |
| SMCJ75A | GGR | 75.00 | 83.30 | 92.07 | i | 121.0 | 12.4 | 5 |
| SMCJ78 | GGS | 78.00 | 86.70 | 105.97 | 1 | 139.0 | 10.8 | 5 |
| SMCJ78A | GGT | 78.00 | 86.70 | 95.83 | 1 | 126.0 | 11.4 | 5 |
| SMCJ85 | GGU | 85.00 | 94.40 | 115.38 | 1 | 151.0 | 9.9 | 5 |
| SMCJ85A | GGV | 85.00 | 94.40 | 104.34 | 11 | 137.0 | 10.4 | 5 |
| SMCJ90 | GGW | 90.00 | 100.00 | 122.22 | 1 | 160.0 | 9.4 | 5 |
| SMCJ90A | GGX | 90.00 | 100.00 | 110.53 | 1 | 146.0 | 10.3 | 5 |
| SMCJ100 | GGY GG7 | 100.00 | 111.00 111.00 | 135.67 122.68 | 1 | 179.0 | 8.4 | 5 |
| SMCJ100A SMCJ110 | GGZ | 100.00 | | | 1 1 | 162.0 196.0 | 9.3 7.7 | 5 5 |
| SMCJ110A | GHE | 110.00 110.00 | 122.00 122.00 | 149.11 134.84 | 1 | 177.0 | 8.4 | 5 |
| SMCJ120 | GHF | 120.00 | 133.00 | 162.56 | i | 214.0 | 7.0 | 5 |
| SMCJ120A | GHG | 120.00 | 133.00 | 147.00 | i | 193.0 | 7.9 | 5 |
| SMCJ130 | GHH | 130.00 | 144.00 | 176.00 | 1 | 231.0 | 6.5 | 5 |
| SMCJ 130A | GHK | 130.00 | 144.00 | 159.16 | i | 209.0 | 7.2 | 5 |
| SMCJ150 | GHL | 150.00 | 167.00 | 204.11 | 1 | 269.0 | 5.6 | 5 |
| SMCJ150A | GHM | 150.00 | 167.00 | 184.58 | 1 | 243.0 | 6.2 | 5 |
| SMCJ160 | GHN | 160.00 | 178.00 | 217.56 | 1 | 287.0 | 5.2 | 5 |
| SMCJ160A | GHP | 160.00 170.00 | 178.00 | 196.74 231.00 | 1 | 259.0 | 5.8 | 5 |
| SMCJ170 | GHQ | | 189.00 | | | 304.0 | 4.9 | 5 |

[&]quot;C" Suffix Designates Bi-directional Devices

Singapore - United States •

[&]quot;A" Suffix Designates 5% Tolerance Devices No Suffix Designates 10% Tolerance Devices

[•] China - Germany - Korea http://www.smc-diodes.com -





BI-DIRECTIONAL 1500 WATT SURFACE MOUNT TVS

| | | REVERSE | BREAKDOWN | BREAKDOWN | 9 <u>494</u> 9 | MAXIMUM | | REVERSE |
|---------------------------|---------------------------|----------------------------------|--------------------------------|--------------------------------|----------------------------|------------------------------------|----------------------------------|-----------------------------|
| I-DIRECTIONAL PART NO. | DEVICE MARKING CODE | STAND-OFF VOLTAGE VRWM (V) | VOLTAGE VBR (V) MIN. @IT | VOLTAGE VBR (V) MAX. @IT | TEST CURRENT IT (mA) | CLAMPING VOLTAGE @Ipp Vc (V) | PEAK PULSE CURRENT Ipp (A) | LEAKAGE @VRWM IF (uA) |
| SMCJ5.0C | BDD | 5.00 | 6.40 | 7.82 | 10 | 9.6 | 156.2 | 2000 |
| SMCJ5.0CA | BDE | 5.00 | 6.40 | 7.07 | 10 | 9.2 | 163.0 | 2000 |
| SMCJ6.0C | BDF | 6.00 | 6.67 | 8.15 | 10 | 11.4 | 131.6 | 2000 |
| SMCJ6.0CA | BDG | 6.00 | 6.67 | 7.37 | 10 | 10.3 | 145.6 | 2000 |
| SMCJ6.5C | BDH | 6.50 | 7.22 | 8.82 | 10 | 12.3 | 122.0 | 1000 |
| SMCJ6.5CA SMCJ7.0C | BDK BDL | 6.50 7.00 | 7.22 7.78 | 7.98 9.51 | 10 10 | 11.2 13.3 | 133.9 112.8 | 1000 400 |
| SMCJ7.0CA | BDM | 7.00 | 7.78 | 8.60 | 10 | 12.0 | 125.0 | 400 |
| SMCJ7.5C | BDN | 7.50 | 8.33 | 10.18 | 1 | 14.3 | 104.9 | 200 |
| SMCJ7.5CA | BDP | 7.50 | 8.33 | 9.21 | 1 | 12.9 | 116.3 | 200 |
| SMCJ8.0C | BDQ | 8.00 | 8.99 | 10.99 | 1 | 15.0 | 100.0 | 100 |
| SMCJ8.0CA | BDR | 8.00 | 8.99 | 9.94 | 1 | 13.6 | 110.3 | 100 |
| SMCJ8.5C | BDS | 8.50 | 9.44 | 11.54 | 1 | 15.9 | 94.3 | 50 |
| SMCJ8.5CA | BDT | 8.50 | 9.44 | 10.43 | 1 | 14.4 | 104.2 | 50 |
| SMCJ9.0C | BDU | 9.00 | 10.00 | 12.22 | 1 | 16.9 | 88.7 | 20 |
| SMCJ9.0CA SMCJ10C | BDV BDW | 9.00 | 10.00 11.10 | 11.05 13.57 | 1 1 | 15.4 18.8 | 97.4 79.8 | 20 5 |
| SMCJ10CA | BDX | 10.00 | 11.10 | 12.27 | 1 | 17.0 | 88.2 | 5 |
| SMCJ11C | BDY | 11.00 | 12.20 | 14.91 | 1 | 20.1 | 74.6 | 5 |
| SMCJ11CA | BDZ | 11.00 | 12.20 | 13.48 | 1 | 18.2 | 82.4 | 5 |
| SMCJ12C | BED | 12.00 | 13.30 | 16.26 | 1 | 22.0 | 68.2 | 5 |
| SMCJ12CA | BEE | 12.00 | 13.30 | 14.70 | 1 | 19.9 | 75.3 | 5 |
| SMCJ13C | BEF | 13.00 | 14.40 | 17.60 | 1 | 23.8 | 63.0 | 5 |
| SMCJ13CA | BEG | 13.00 | 14.40 | 15.92 | . 1 | 21.5 | 69.7 | 5 |
| SMCJ14C | BEH | 14.00 | 15.60 | 19.07 | 1 | 25.8 | 58.1 | 5 |
| SMCJ14CA | BEK | 14.00 | 15.60 | 17.24 | 1 | 23.2 | 64.7 | 5 |
| SMCJ15C SMCJ15CA | BEL BEM | 15.00 15.00 | 16.70 16.70 | 20.41 18.46 | 1 | 26.9 24.4 | 55.8 61.5 | 5 5 |
| SMCJ15CA SMCJ16C | BEN | 16.00 | 17.80 | 21.76 | 1 | 24.4 | 51.5 52.1 | 5 |
| SMCJ16CA SMCJ16CA | BEP | 16.00 | 17.80 | 19.67 | 1 | 26.0 | 52.1 57.7 | 5 |
| SMCJ17C | BEQ | 17.00 | 18.90 | 23.10 | 1 | 30.5 | 49.2 | 5 |
| SMCJ17CA | BER | 17.00 | 18.90 | 20.89 | 1 | 27.6 | 53.3 | 5 |
| SMCJ18C | BES | 18.00 | 20.00 | 24.44 | 1 | 32.2 | 46.6 | .5 |
| SMCJ18CA | BET | 18.00 | 20.00 | 22.11 | 1 | 29.2 | 51.4 | 5 |
| SMCJ20C | BEU | 20.00 | 22.20 | 27.13 | 1 | 35.8 | 41.9 | 5 |
| SMCJ20CA | BEV | 20.00 | 22.20 | 24.54 | 1 | 32.4 | 46.3 | 5 |
| SMCJ22C | BEW | 22.00 | 24.40 | 29.82 | 1 | 39.4 | 38.1 | 5 |
| SMCJ22CA | BEX | 22.00 | 24.40 | 26.97 | 1 | 35.5 | 42.2 | 5 |
| SMCJ24C | BEY | 24.00 | 26.70 | 32.63 | 1 | 43.0 | 34.9 | 5 |
| SMCJ24CA | BEZ BED | 24.00 26.00 | 26.70 28.90 | 29.51 35.32 | 1 | 38.9 46.6 | 38.6 32.2 | 5 |
| SMCJ26C | BFE | 26.00 | 28.90 | 30.32 | 1 | 40.0 | 32.2 35.6 | 5 5 |
| SMCJ26CA SMCJ28C | BEE | 28.00 | 31.10 | 38.01 | 1 | 50.0 | 30.0 | 5 |
| SMCJ28CA | BEG | 28.00 | 31.10 | 34.37 | 1 | 45.4 | 33.0 | 5 |
| SMCJ30C | BFH | 30.00 | 33.30 | 40.70 | 1 | 53.5 | 28.0 | 5 |
| SMCJ3DCA | BFK | 30.00 | 33.30 | 36.81 | 1 | 48.4 | 31.0 | 5 |
| SMCJ33C | BFL | 33.00 | 36.70 | 44.86 | 1 | 59.0 | 25.2 | 5 |
| SMCJ33CA | BFM | 33.00 | 36.70 | 40.56 | 1 | 53.3 | 28.1 | 5 |
| SMCJ36C | BFN | 36.00 | 40.00 | 48.89 | 1 | 64.3 | 23.3 | 5 |
| SMCJ36CA | BFP | 36.00 | 40.00 | 44.21 | 1 | 58.1 | 25.8 | 5 |
| SMCJ40C SMCJ40CA | BFQ BFR | 40.00 40.00 | 44.40 44.40 | 54.27 49.07 | 1 | 71.4 84.5 | 21.0 23.2 | 5 5 |
| SMCJ40CA SMCJ43C | BFS | 43.00 | 47.80 | 58.42 | 1 | 76.6 | 19.6 | 5 |
| SMCJ43CA | BFT | 43.00 | 47.80 | 52.83 | 1 | 69.4 | 21.6 | 5 |
| SMCJ45CA | BFU | 45.00 | 50.00 | 61.11 | 1 | 80.3 | 18.7 | 5 |
| SMCJ45CA | BFV | 45.00 | 50.00 | 55.26 | 1 | 72.7 | 20.6 | 5 |
| SMCJ48C | BFW | 48.00 | 53.30 | 65.14 | 1 | 85.5 | 17.5 | 5 |
| SMCJ48CA | BFX | 48.00 | 53.30 | 58.91 | 1 | 77.4 | 19.4 | 5 |
| SMCJ51C | BFY | 51.00 | 56.70 | 69.30 | 1 | 91.1 | 18.5 | 5 |
| SMCJ51CA | BFZ | 51.00 | 56.70 | 62.67 | 1 | 82.4 | 18.2 | 5 |
| SMCJ54C | BGD | 54.00 | 60.00 | 73.33 | 1 | 96.3 | 15.6 | 5 |
| SMCJ54CA SMCJ58C | BGE BGF | 54.00 58.00 | 60.00 64.40 | 66.32 78.71 | 1 | 87.1 103.0 | 17.2 14.6 | 5 5 |
| SMCJ58C SMCJ58CA | BGG | 58.00 | 64.40 | 78.71 | 1 | 93.6 | 14.6 16.0 | 5 |
| SMCJ80C | BGH | 60.00 | 66.70 | 81.52 | 1 | 107.0 | 14.0 | 5 |
| SMCJ80CA | BGK | 60.00 | 66.70 | 73.72 | 1 | 96.8 | 15.5 | 5 |
| SMCJ64C | BGL | 64.00 | 71.10 | 86.90 | 1 | 114.0 | 13.2 | 5 |
| SMCJ84CA | BGM | 64.00 | 71.10 | 78.58 | 1 | 103.0 | 14.6 | 5 |
| SMCJ70C | BGN | 70.00 | 77.80 | 95.09 | 1 | 125.0 | 12.0 | 5 |
| SMCJ70CA | BGP | 70.00 | 77.80 | 85.99 | 1 | 113.0 | 13.3 | 5 |
| SMCJ75C | BGQ | 75.00 | 83.30 | 101.81 | 1 | 134.0 | 11.2 | 5 |
| SMCJ75CA | BGR | 75.00 | 83.30 | 92.07 | 1 | 121.0 | 12.4 | 5 |
| SMCJ78C | BGS | 78.00 | 86.70 86.70 | 105.97 | 1 | 139.0 | 10.8 | 5 |
| SMCJ78CA SMCJ85C | BGT BGU | 78.00 85.00 | 86.70 94.40 | 95.83 115.38 | 1 | 126.0 151.0 | 11.4 9.9 | 5 5 |
| SMCJ85CA | BGV | 85.00 | 94.40 | 104.34 | 1 | 137.0 | 10.4 | 5 |
| SMCJ90C | BGW | 90.00 | 100.00 | 122.22 | 1 | 160.0 | 9.4 | 5 |
| SMCJ90CA | BGX | 90.00 | 100.00 | 110.53 | 1 | 146.0 | 10.3 | 5 |
| SMCJ100C | BGY | 100.00 | 111.00 | 135.67 | 1 | 179.0 | 8.4 | 5 |
| SMCJ100CA | BGZ | 100.00 | 111.00 | 122.68 | 1 | 162.0 | 9.3 | 5 |
| SMCJ110C | BHD | 110.00 | 122.00 | 149.11 | 1 | 196.0 | 7.7 | 5 |
| SMCJ110CA | BHE | 110.00 | 122.00 | 134.84 | 1 | 177.0 | 8.4 | 5 |
| SMCJ120C | BHF | 120.00 | 133.00 | 162.56 | 1 | 214.0 | 7.0 | 5 |
| SMCJ120CA | BHG | 120.00 | 133.00 | 147.00 | 1 | 193.0 | 7.9 | 5 |
| SMCJ130C | BHH | 130.00 | 144.00 | 176.00 | 1 | 231.0 | 8.5 | 5 |
| SMCJ130CA | BHK | 130.00 | 144.00 | 159.16 | 1 | 209.0 | 7.2 | 5 |
| SMCJ150C | BHL | 150.00 | 187.00 | 204.11 | 1 | 269.0 | 5.6 | 5 |
| SMCJ150CA SMCJ160C | BHM | 150.00 | 167.00 | 184.58 | 1 | 243.0 | 6.2 5.2 | 5 |
| SMCJ160CA | BHN BHP | 160.00 160.00 | 178.00 178.00 | 217.58 198.74 | 1 | 287.0 259.0 | 5.2 5.8 | 5 5 |
| SMCJ160CA SMCJ170C | BHQ | 170.00 | 189.00 | 231.00 | 1 | 304.0 | 5.8 4.9 | 5 |
| SMCJ170CA | BHR | 170.00 | 189.00 | 208.89 | 1 | 275.0 | 5.5 | 5 |

• China - Germany - Korea -Singapore - United States •

• http://www.smc-diodes.com - sales@ smc-diodes.com •

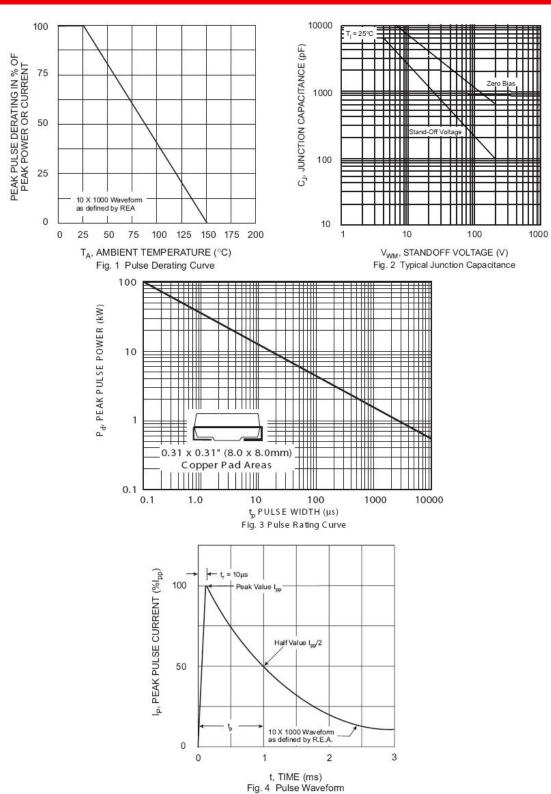
[&]quot;C" Suffix Designates Bi-directional Devices
"A" Suffix Designates 5% Tolerance Devices
No Suffix Designates 10% Tolerance Devices







Ratings and Characteristics Curves



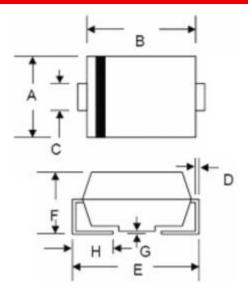
- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •





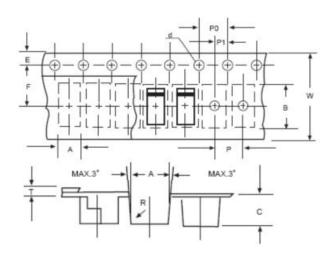


Mechanical Dimensions SMC



| | SMC/DO-214AB | | | | |
|------|--------------|--------|--------|-------|--|
| Dim. | Min. | Max. | Min. | Max. | |
| Α | 5.59 | 6.22 | 0.220 | 0.245 | |
| В | 6.60 | 7.11 | 0.260 | 0.280 | |
| С | 2.90 | 3.20 | 0.114 | 0.126 | |
| D | 0.152 | 0.305 | 0.006 | 0.012 | |
| E | 7.75 | 8.13 | 0.305 | 0.320 | |
| F | 2.00 | 2.62 | 0.079 | 0.103 | |
| G | - | 0.203 | - | 0.008 | |
| Н | 0.76 | 1.52 | 0.030 | 0.060 | |
| | In Millir | neters | In inc | hes | |

Carrier Tape Specification SMC



| SYMBOL | Millimeters | | | |
|---------|-------------|-------|--|--|
| STWIDUL | Min. | Max. | | |
| Α | 5.90 | 6.10 | | |
| В | 8.20 | 8.40 | | |
| C | 2.40 | 2.60 | | |
| d | 1.40 | 1.60 | | |
| E | 1.40 | 1.60 | | |
| F | 7.60 | 7.70 | | |
| Р | 7.90 | 8.10 | | |
| P0 | 3.90 | 4.10 | | |
| P1 | 3.90 | 4.10 | | |
| T | - 1 | 0.600 | | |
| W | 15.80 | 16.20 | | |







DISCLAIMER:

- 1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the SMC Sangdest Microelectronics (Nanjing) Co., Ltd sales department for the latest version of the datasheet(s).
- 2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.
- 3- In no event shall SMC Sangdest Microelectronics (Nanjing) Co., Ltd be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). SMC Sangdest Microelectronics (Nanjing) Co., Ltd assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.
- 4- In no event shall SMC Sangdest Microelectronics (Nanjing) Co., Ltd be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.
- 5- No license is granted by the datasheet(s) under any patents or other rights of any third party or SMC Sangdest Microelectronics (Nanjing) Co., Ltd.
- 6- The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of SMC Sangdest Microelectronics (Nanjing) Co., Ltd.
- 7- The products (technologies) described in the datasheet(s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations..