



THE DATASHEET OF SMBJ16CATR



SMBJ SERIES SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR

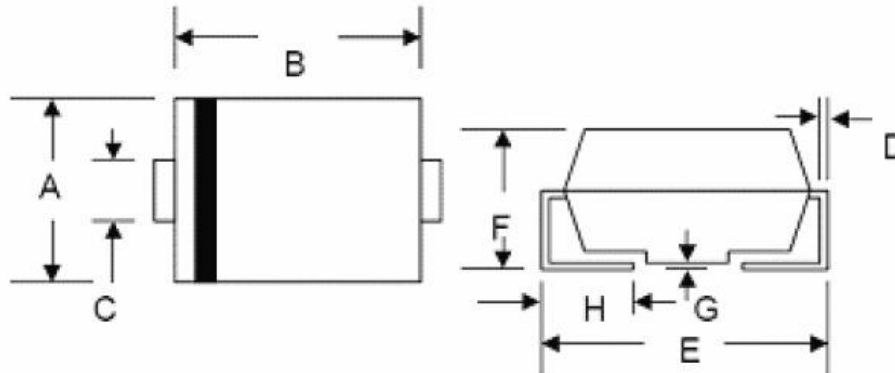
Features:

- Glass Passivated Die Construction
- 600W Peak Pulse Power Dissipation
- 5.0V- 400V Standoff Voltage
- Uni- and Bi-Directional Versions Available
- Excellent Clamping Capability
- Fast Response Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O
- “-A” is an AEC-Q101 qualified device
- This is a Pb – Free Device
- All SMC Parts are Traceable to the Wafer Lot
- Additional testing can be offered upon request

Mechanical Data:

- Case: JEDEC DO-214AA Low Profile Molded Plastic
- Terminals: Solder Plated , Solderable per MIL-STD 750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Weight:0.093 grams(approx.)

Mechanical Dimensions: In Inches(mm)



| SMB/DO-214AA | | | | |
|--------------|-------|-------|-------|---------|
| Dim. | Min. | Max. | Min. | Max. |
| A | 3.30 | 3.94 | 0.130 | 0.155 |
| B | 4.06 | 4.70 | 0.160 | 0.185 |
| C | 1.80 | 2.20 | 0.071 | 0.087 |
| D | 0.152 | 0.305 | 0.006 | 0.012 |
| E | 4.80 | 5.59 | 0.189 | 0.220 |
| F | 2.10 | 2.60 | 0.083 | 0.102 |
| G | 0.051 | 0.203 | 0.002 | 0.008 |
| H | 0.76 | 1.52 | 0.030 | 0.060 |
| | | In mm | | In inch |

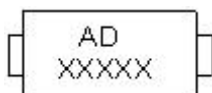
SMB

Marking Diagram:

Where XXXXX is YYWWL



SMBJ5.0



SMBJ5.0C

 KD/AD = Part Name
 YY = Year
 WW = Week
 L = Lot Number

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

Ordering Information

| Device | Package | Shipping |
|-------------|------------------|----------------|
| SMBJ SERIES | SMB (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.

Maximum Ratings and Electrical Characteristics @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

| Parameter | Symbol | Value | Unit |
|--|-----------------------------------|------------|--------------------|
| Peak Pulse Power Dissipation at $T_A=25^{\circ}\text{C}$ by 10x1000 μs Waveform (Fig.1)(Note 1), (Note 2) | P _{PPM} | 600 | W |
| Peak Forward Surge Current, 8.3ms Single Half Sine Wave (Note 2),(Note 3) | I _{FSM} | 100 | A |
| Operating Junction and Storage Temperature Range | T _J , T _{STG} | -55 to 150 | $^{\circ}\text{C}$ |

- Notes:**
1. Non-repetitive current pulse, per Fig. 3 and derated above $T_A = 25^{\circ}\text{C}$ per Fig. 2.
 2. Mounted on 5.0mm² (0.013mm thick) land areas.
 3. Measured on 8.3ms single half sine wave or equivalent square wave, duty cycle=4pulses per minute maximum.

Technical Data
Data Sheet N0193, Rev. C

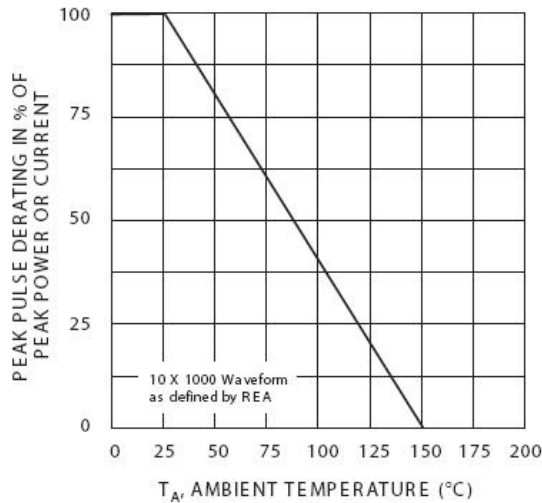


Fig. 1 Pulse Derating Curve

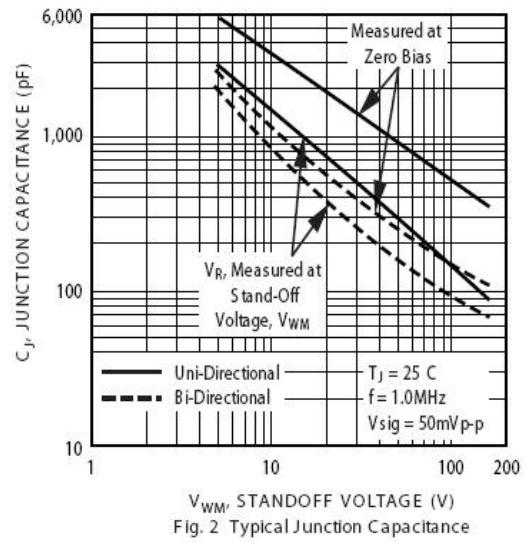


Fig. 2 Typical Junction Capacitance

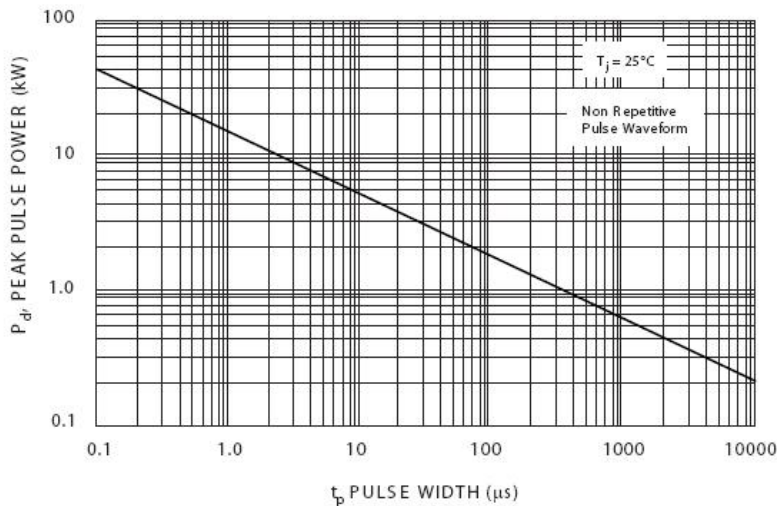


Fig. 3 Pulse Rating Curve

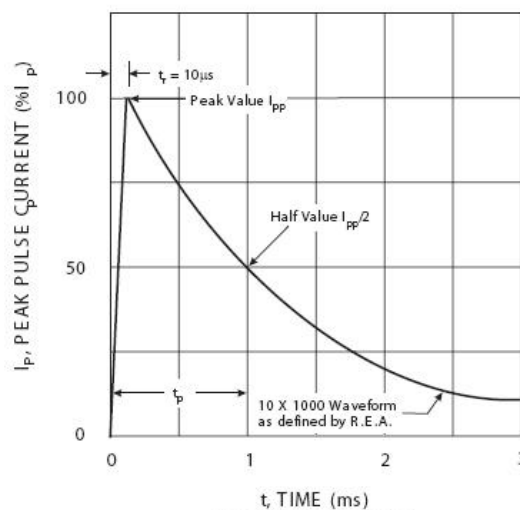


Fig. 4 Pulse Waveform

UNI-DIRECTIONAL 600 WATT SURFACE MOUNT TVS

| UNI-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 IR(μA) |
|--------------------------|---------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|-------------------------------------|---------------------------|------------------------------|
| SMBJ5.0 | KD | 5.00 | 6.40 | 7.82 | 10 | 9.6 | 62.5 | 800 |
| SMBJ5.0A | KE | 5.00 | 6.40 | 7.07 | 10 | 9.2 | 65.2 | 800 |
| SMBJ6.0 | KF | 6.00 | 6.67 | 8.15 | 10 | 11.4 | 52.6 | 800 |
| SMBJ6.0A | KG | 6.00 | 6.67 | 7.37 | 10 | 10.3 | 58.3 | 800 |
| SMBJ6.5 | KH | 6.50 | 7.22 | 8.82 | 10 | 12.3 | 48.7 | 500 |
| SMBJ6.5A | KK | 6.50 | 7.22 | 7.98 | 10 | 11.2 | 53.6 | 500 |
| SMBJ7.0 | KL | 7.00 | 7.78 | 9.51 | 10 | 13.3 | 45.1 | 200 |
| SMBJ7.0A | KM | 7.00 | 7.78 | 8.60 | 10 | 12.0 | 50.0 | 200 |
| SMBJ7.5 | KN | 7.50 | 8.33 | 10.18 | 1 | 14.3 | 42.0 | 100 |
| SMBJ7.5A | KP | 7.50 | 8.33 | 9.21 | 1 | 12.9 | 46.5 | 100 |
| SMBJ8.0 | KQ | 8.00 | 8.99 | 10.99 | 1 | 15.0 | 40.0 | 50 |
| SMBJ8.0A | KR | 8.00 | 8.99 | 9.94 | 1 | 13.6 | 44.1 | 50 |
| SMBJ8.5 | KS | 8.5 | 9.44 | 11.54 | 1 | 15.9 | 37.7 | 10 |
| SMBJ8.5A | KT | 8.5 | 9.44 | 1.43 | 1 | 14.4 | 41.7 | 10 |
| SMBJ9.0 | KU | 9.0 | 10.00 | 12.22 | 1 | 16.9 | 35.5 | 5 |
| SMBJ9.0A | KV | 9.0 | 10.00 | 11.05 | 1 | 15.4 | 39.0 | 5 |
| SMBJ10 | KW | 10 | 11.10 | 13.57 | 1 | 18.8 | 31.9 | 5 |
| SMBJ10A | KX | 10 | 11.10 | 12.27 | 1 | 17.0 | 35.3 | 5 |
| SMBJ11 | KY | 11 | 12.20 | 14.91 | 1 | 20.1 | 29.9 | 5 |
| SMBJ11A | KZ | 11 | 12.20 | 13.48 | 1 | 18.2 | 33.0 | 5 |
| SMBJ12 | LD | 12 | 13.30 | 16.26 | 1 | 22.0 | 27.3 | 5 |
| SMBJ12A | LE | 12 | 13.30 | 14.70 | 1 | 19.9 | 30.2 | 5 |
| SMBJ13 | LF | 13 | 14.40 | 17.60 | 1 | 23.8 | 25.2 | 5 |
| SMBJ13A | LG | 13 | 14.40 | 15.92 | 1 | 21.5 | 27.9 | 5 |
| SMBJ14 | LH | 14 | 15.60 | 19.07 | 1 | 25.8 | 23.3 | 5 |
| SMBJ14A | LK | 14 | 15.60 | 17.24 | 1 | 23.2 | 25.8 | 5 |
| SMBJ15 | LL | 15 | 16.70 | 20.41 | 1 | 26.9 | 22.3 | 5 |
| SMBJ15A | LM | 15 | 16.70 | 18.46 | 1 | 24.4 | 24.0 | 5 |
| SMBJ16 | LN | 16 | 17.80 | 21.76 | 1 | 28.8 | 20.8 | 5 |
| SMBJ16A | LP | 16 | 17.80 | 19.67 | 1 | 26.0 | 23.1 | 5 |
| SMBJ17 | LQ | 17 | 18.90 | 23.10 | 1 | 30.5 | 19.7 | 5 |
| SMBJ17A | LR | 17 | 18.90 | 20.89 | 1 | 27.6 | 21.7 | 5 |
| SMBJ18 | LS | 18 | 20.00 | 24.44 | 1 | 32.2 | 18.6 | 5 |
| SMBJ18A | LT | 18 | 20.00 | 22.11 | 1 | 29.2 | 20.5 | 5 |
| SMBJ20 | LU | 20 | 22.20 | 27.13 | 1 | 35.8 | 16.7 | 5 |
| SMBJ20A | LV | 20 | 22.20 | 24.54 | 1 | 32.4 | 18.5 | 5 |
| SMBJ22 | LW | 22 | 24.40 | 29.82 | 1 | 39.4 | 15.2 | 5 |
| SMBJ22A | LX | 22 | 24.40 | 26.97 | 1 | 35.5 | 16.9 | 5 |
| SMBJ24 | LY | 24 | 26.70 | 32.63 | 1 | 43.0 | 14.0 | 5 |
| SMBJ24A | LZ | 24 | 26.70 | 29.51 | 1 | 38.9 | 15.4 | 5 |
| SMBJ26 | MD | 26 | 28.90 | 35.32 | 1 | 46.6 | 12.4 | 5 |
| SMBJ26A | ME | 26 | 28.90 | 31.94 | 1 | 42.1 | 14.2 | 5 |
| SMBJ28 | MF | 28 | 31.10 | 38.01 | 1 | 50.0 | 12.0 | 5 |
| SMBJ28A | MG | 28 | 31.10 | 34.37 | 1 | 45.4 | 13.2 | 5 |
| SMBJ30 | MH | 30 | 33.30 | 40.70 | 1 | 53.5 | 11.2 | 5 |
| SMBJ30A | MK | 30 | 33.30 | 36.81 | 1 | 48.4 | 12.4 | 5 |
| SMBJ33 | ML | 33 | 36.70 | 44.86 | 1 | 59.0 | 10.2 | 5 |
| SMBJ33A | MM | 33 | 36.70 | 40.56 | 1 | 53.3 | 13.2 | 5 |
| SMBJ36 | MN | 36 | 40.00 | 48.89 | 1 | 64.3 | 9.3 | 5 |
| SMBJ36A | MP | 36 | 40.00 | 44.21 | 1 | 58.1 | 10.3 | 5 |



| UNI-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 IR(uA) |
|--------------------------|---------------------|------------------------------------|------------------------------------|------------------------------------|---------------------|-------------------------------------|---------------------------|------------------------------|
| SMBJ40 | MQ | 40 | 44.40 | 54.27 | 1 | 71.4 | 8.4 | 5 |
| SMBJ40A | MR | 40 | 44.40 | 49.07 | 1 | 64.5 | 9.3 | 5 |
| SMBJ43 | MS | 43 | 47.80 | 58.42 | 1 | 76.7 | 7.8 | 5 |
| SMBJ43A | MT | 43 | 47.80 | 52.83 | 1 | 69.4 | 8.6 | 5 |
| SMBJ45 | MU | 45 | 50.00 | 61.11 | 1 | 80.3 | 7.5 | 5 |
| SMBJ45A | MV | 45 | 50.00 | 55.26 | 1 | 72.7 | 8.3 | 5 |
| SMBJ48 | MW | 48 | 53.30 | 65.14 | 1 | 85.5 | 7.0 | 5 |
| SMBJ48A | MX | 48 | 53.30 | 58.91 | 1 | 77.4 | 7.7 | 5 |
| SMBJ51 | MY | 51 | 56.70 | 69.30 | 1 | 91.1 | 6.6 | 5 |
| SMBJ51A | MZ | 51 | 56.70 | 62.67 | 1 | 82.4 | 7.3 | 5 |
| SMBJ54 | ND | 54 | 60.00 | 73.33 | 1 | 96.3 | 6.2 | 5 |
| SMBJ54A | NE | 54 | 60.00 | 66.32 | 1 | 87.1 | 6.9 | 5 |
| SMBJ58 | NF | 58 | 64.40 | 78.71 | 1 | 103.0 | 5.8 | 5 |
| SMBJ58A | NG | 58 | 64.40 | 71.18 | 1 | 93.6 | 6.4 | 5 |
| SMBJ60 | NH | 60 | 66.70 | 81.52 | 1 | 107.0 | 5.6 | 5 |
| SMBJ60A | NK | 60 | 66.70 | 73.72 | 1 | 96.8 | 6.2 | 5 |
| SMBJ64 | NL | 64 | 71.10 | 86.90 | 1 | 114.0 | 5.3 | 5 |
| SMBJ64A | NM | 64 | 71.10 | 78.58 | 1 | 103.0 | 5.8 | 5 |
| SMBJ70 | NN | 70 | 77.80 | 95.09 | 1 | 125.0 | 4.8 | 5 |
| SMBJ70A | NP | 70 | 77.80 | 85.99 | 1 | 113.0 | 5.3 | 5 |
| SMBJ75 | NQ | 75 | 83.30 | 101.81 | 1 | 134.0 | 4.5 | 5 |
| SMBJ75A | NR | 75 | 83.30 | 92.07 | 1 | 121.0 | 4.9 | 5 |
| SMBJ78 | NS | 78 | 86.70 | 105.97 | 1 | 139.0 | 4.3 | 5 |
| SMBJ78A | NT | 78 | 86.70 | 95.83 | 1 | 126.0 | 4.7 | 5 |
| SMBJ85 | NU | 85 | 94.40 | 115.38 | 1 | 151.0 | 3.9 | 5 |
| SMBJ85A | NV | 85 | 94.40 | 104.34 | 1 | 137.0 | 4.4 | 5 |
| SMBJ90 | NW | 90 | 100.00 | 122.22 | 1 | 160.0 | 3.8 | 5 |
| SMBJ90A | NX | 90 | 100.00 | 110.53 | 1 | 146.0 | 4.1 | 5 |
| SMBJ100 | NY | 100 | 111.00 | 135.67 | 1 | 179.0 | 3.4 | 5 |
| SMBJ100A | NZ | 100 | 111.00 | 122.68 | 1 | 162.0 | 3.7 | 5 |
| SMBJ110 | PD | 110 | 122.00 | 149.11 | 1 | 196.0 | 3.0 | 5 |
| SMBJ110A | PE | 110 | 122.00 | 134.84 | 1 | 177.0 | 3.4 | 5 |
| SMBJ120 | PF | 120 | 133.00 | 162.56 | 1 | 214.0 | 2.8 | 5 |
| SMBJ120A | PG | 120 | 133.00 | 147.00 | 1 | 193.0 | 3.1 | 5 |
| SMBJ130 | PH | 130 | 144.00 | 176.00 | 1 | 231.0 | 2.6 | 5 |
| SMBJ130A | PK | 130 | 144.00 | 159.16 | 1 | 209.0 | 2.9 | 5 |
| SMBJ150 | PL | 150 | 167.00 | 204.11 | 1 | 269.0 | 2.2 | 5 |
| SMBJ150A | PM | 150 | 167.00 | 184.58 | 1 | 243.0 | 2.5 | 5 |
| SMBJ160 | PN | 160 | 178.00 | 217.56 | 1 | 287.0 | 2.1 | 5 |
| SMBJ160A | PP | 160 | 178.00 | 196.74 | 1 | 259.0 | 2.3 | 5 |
| SMBJ170 | PQ | 170 | 189.00 | 231.00 | 1 | 304.0 | 2.0 | 5 |
| SMBJ170A | PR | 170 | 189.00 | 208.89 | 1 | 275.0 | 2.2 | 5 |
| SMBJ180A | PT | 180 | 201 | 222 | 1 | 292 | 2.1 | 1 |
| SMBJ200A | PV | 200 | 224 | 247 | 1 | 324 | 1.9 | 1 |
| SMBJ220A | PX | 220 | 246 | 272 | 1 | 356 | 1.7 | 1 |
| SMBJ250A | PZ | 250 | 279 | 309 | 1 | 405 | 1.5 | 1 |
| SMBJ300A | QE | 300 | 335 | 371 | 1 | 486 | 1.3 | 1 |
| SMBJ350A | QG | 350 | 391 | 432 | 1 | 567 | 1.1 | 1 |
| SMBJ400A | QK | 400 | 447 | 494 | 1 | 648 | 0.9 | 1 |
| SMBJ440A | QM | 440 | 492 | 543 | 1 | 713 | 0.9 | 1 |

"C" Suffix Designates Bi-directional Devices
"A" Suffix Designates 5% Tolerance Devices
No Suffix Designates 10% Tolerance Devices
"-A" Suffix is an AEC-Q101 qualified device

BI-DIRECTIONAL 600 WATT SURFACE MOUNT TVS

| BI-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 @I _{PP} VC(V) | PEAK PULSE CURRENT IPP(A) | REVERSE LEAKAGE @VRWM IR(μA) |
|-------------------------|---------------------|------------------------------------|------------------------------------|------------------------------------|---------------------|---|---------------------------|------------------------------|
| SMBJ5.0C | AD | 5.00 | 6.40 | 7.82 | 10 | 9.6 | 62.5 | 1600 |
| SMBJ5.0CA | AE | 5.00 | 6.40 | 7.07 | 10 | 9.2 | 65.2 | 1600 |
| SMBJ6.0C | AF | 6.00 | 6.67 | 8.15 | 10 | 11.4 | 52.6 | 1600 |
| SMBJ6.0CA | AG | 6.00 | 6.67 | 7.37 | 10 | 10.3 | 58.3 | 1600 |
| SMBJ6.5C | AH | 6.50 | 7.22 | 8.82 | 10 | 12.3 | 48.7 | 1000 |
| SMBJ6.5CA | AK | 6.50 | 7.22 | 7.98 | 10 | 11.2 | 53.6 | 1000 |
| SMBJ7.0C | AL | 7.00 | 7.78 | 9.51 | 10 | 13.3 | 45.1 | 400 |
| SMBJ7.0CA | AM | 7.00 | 7.78 | 8.60 | 10 | 12.0 | 50.0 | 400 |
| SMBJ7.5C | AN | 7.50 | 8.33 | 10.18 | 1 | 14.3 | 42.0 | 200 |
| SMBJ7.5CA | AP | 7.50 | 8.33 | 9.21 | 1 | 12.9 | 46.5 | 200 |
| SMBJ8.0C | AQ | 8.00 | 8.99 | 10.99 | 1 | 15.0 | 40.0 | 100 |
| SMBJ8.0CA | AR | 8.00 | 8.99 | 9.94 | 1 | 13.6 | 44.1 | 100 |
| SMBJ8.5C | AS | 8.5 | 9.44 | 11.54 | 1 | 15.9 | 37.7 | 20 |
| SMBJ8.5CA | AT | 8.5 | 9.44 | 11.43 | 1 | 14.4 | 41.7 | 20 |
| SMBJ9.0C | AU | 9.0 | 10.00 | 12.22 | 1 | 16.9 | 35.5 | 10 |
| SMBJ9.0CA | AV | 9.0 | 10.00 | 11.05 | 1 | 15.4 | 39.0 | 10 |
| SMBJ10C | AW | 10 | 11.10 | 13.57 | 1 | 18.8 | 31.9 | 5 |
| SMBJ10CA | AX | 10 | 11.10 | 12.27 | 1 | 17.0 | 35.3 | 5 |
| SMBJ11C | AY | 11 | 12.20 | 14.91 | 1 | 20.1 | 29.9 | 5 |
| SMBJ11CA | AZ | 11 | 12.20 | 13.48 | 1 | 18.2 | 33.0 | 5 |
| SMBJ12C | BD | 12 | 13.30 | 16.26 | 1 | 22.0 | 27.3 | 5 |
| SMBJ12CA | BE | 12 | 13.30 | 14.70 | 1 | 19.9 | 30.2 | 5 |
| SMBJ13C | BF | 13 | 14.40 | 17.60 | 1 | 23.8 | 25.2 | 5 |
| SMBJ13CA | BG | 13 | 14.40 | 15.92 | 1 | 21.5 | 27.9 | 5 |
| SMBJ14C | BH | 14 | 15.60 | 19.07 | 1 | 25.8 | 23.3 | 5 |
| SMBJ14CA | BK | 14 | 15.60 | 17.24 | 1 | 23.2 | 25.8 | 5 |
| SMBJ15C | BL | 15 | 16.70 | 20.41 | 1 | 26.9 | 22.3 | 5 |
| SMBJ15CA | BM | 15 | 16.70 | 18.46 | 1 | 24.4 | 24.0 | 5 |
| SMBJ16C | BN | 16 | 17.80 | 21.76 | 1 | 28.8 | 20.8 | 5 |
| SMBJ16CA | BP | 16 | 17.80 | 19.67 | 1 | 26.0 | 23.1 | 5 |
| SMBJ17C | BQ | 17 | 18.90 | 23.10 | 1 | 30.5 | 19.7 | 5 |
| SMBJ17CA | BR | 17 | 18.90 | 20.89 | 1 | 27.6 | 21.7 | 5 |
| SMBJ18C | BS | 18 | 20.00 | 24.44 | 1 | 32.2 | 18.6 | 5 |
| SMBJ18CA | BT | 18 | 20.00 | 22.11 | 1 | 29.2 | 20.5 | 5 |
| SMBJ20C | BU | 20 | 22.20 | 27.13 | 1 | 35.8 | 16.7 | 5 |
| SMBJ20CA | BV | 20 | 22.20 | 24.54 | 1 | 32.4 | 18.5 | 5 |
| SMBJ22C | BW | 22 | 24.40 | 29.82 | 1 | 39.4 | 15.2 | 5 |
| SMBJ22CA | BX | 22 | 24.40 | 26.97 | 1 | 35.5 | 16.9 | 5 |
| SMBJ24C | BY | 24 | 26.70 | 32.63 | 1 | 43.0 | 14.0 | 5 |
| SMBJ24CA | BZ | 24 | 26.70 | 29.51 | 1 | 38.9 | 15.4 | 5 |
| SMBJ26C | CD | 26 | 28.90 | 35.32 | 1 | 46.6 | 12.4 | 5 |
| SMBJ26CA | CE | 26 | 28.90 | 31.94 | 1 | 42.1 | 14.2 | 5 |
| SMBJ28C | CF | 28 | 31.10 | 38.01 | 1 | 50.0 | 12.0 | 5 |
| SMBJ28CA | CG | 28 | 31.10 | 34.37 | 1 | 45.4 | 13.2 | 5 |
| SMBJ30C | CH | 30 | 33.30 | 40.70 | 1 | 53.5 | 11.2 | 5 |
| SMBJ30CA | CK | 30 | 33.30 | 36.81 | 1 | 48.4 | 12.4 | 5 |
| SMBJ33C | CL | 33 | 36.70 | 44.86 | 1 | 59.0 | 10.2 | 5 |
| SMBJ33CA | CM | 33 | 36.70 | 40.56 | 1 | 53.3 | 13.2 | 5 |
| SMBJ36C | CN | 36 | 40.00 | 48.89 | 1 | 64.3 | 9.3 | 5 |
| SMBJ36CA | CP | 36 | 40.00 | 44.21 | 1 | 58.1 | 10.3 | 5 |



| BI-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 IR (uA) |
|-------------------------|---------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--------------------------------------|----------------------------|-------------------------------|
| SMBJ40C | CQ | 40 | 44.40 | 54.27 | 1 | 71.4 | 8.4 | 5 |
| SMBJ40CA | CR | 40 | 44.40 | 49.07 | 1 | 64.5 | 9.3 | 5 |
| SMBJ43C | CS | 43 | 47.80 | 58.42 | 1 | 76.7 | 7.8 | 5 |
| SMBJ43CA | CT | 43 | 47.80 | 52.83 | 1 | 69.4 | 8.6 | 5 |
| SMBJ45C | CU | 45 | 50.00 | 61.11 | 1 | 80.3 | 7.5 | 5 |
| SMBJ45CA | CV | 45 | 50.00 | 55.26 | 1 | 72.7 | 8.3 | 5 |
| SMBJ48C | CW | 48 | 53.30 | 65.14 | 1 | 85.5 | 7.0 | 5 |
| SMBJ48CA | CX | 48 | 53.30 | 58.91 | 1 | 77.4 | 7.7 | 5 |
| SMBJ51C | CY | 51 | 56.70 | 69.30 | 1 | 91.1 | 6.6 | 5 |
| SMBJ51CA | CZ | 51 | 56.70 | 62.67 | 1 | 82.4 | 7.3 | 5 |
| SMBJ54C | DD | 54 | 60.00 | 73.33 | 1 | 96.3 | 6.2 | 5 |
| SMBJ54CA | DE | 54 | 60.00 | 66.32 | 1 | 87.1 | 6.9 | 5 |
| SMBJ58C | DF | 58 | 64.40 | 78.71 | 1 | 103.0 | 5.8 | 5 |
| SMBJ58CA | DG | 58 | 64.40 | 71.18 | 1 | 93.6 | 6.4 | 5 |
| SMBJ60C | DH | 60 | 66.70 | 81.52 | 1 | 107.0 | 5.6 | 5 |
| SMBJ60CA | DK | 60 | 66.70 | 73.72 | 1 | 96.8 | 6.2 | 5 |
| SMBJ64C | DL | 64 | 71.10 | 86.90 | 1 | 114.0 | 5.3 | 5 |
| SMBJ64CA | DM | 64 | 71.10 | 78.58 | 1 | 103.0 | 5.8 | 5 |
| SMBJ70C | DN | 70 | 77.80 | 95.09 | 1 | 125.0 | 4.8 | 5 |
| SMBJ70CA | DP | 70 | 77.80 | 85.99 | 1 | 113.0 | 5.3 | 5 |
| SMBJ75C | DQ | 75 | 83.30 | 101.81 | 1 | 134.0 | 4.5 | 5 |
| SMBJ75CA | DR | 75 | 83.30 | 92.07 | 1 | 121.0 | 4.9 | 5 |
| SMBJ78C | DS | 78 | 86.70 | 105.97 | 1 | 139.0 | 4.3 | 5 |
| SMBJ78CA | DT | 78 | 86.70 | 95.83 | 1 | 126.0 | 4.7 | 5 |
| SMBJ85C | DU | 85 | 94.40 | 115.38 | 1 | 151.0 | 3.9 | 5 |
| SMBJ85CA | DV | 85 | 94.40 | 104.34 | 1 | 137.0 | 4.4 | 5 |
| SMBJ90C | DW | 90 | 100.00 | 122.22 | 1 | 160.0 | 3.8 | 5 |
| SMBJ90CA | DX | 90 | 100.00 | 110.53 | 1 | 146.0 | 4.1 | 5 |
| SMBJ100C | DY | 100 | 111.00 | 135.67 | 1 | 179.0 | 3.4 | 5 |
| SMBJ100CA | DZ | 100 | 111.00 | 122.68 | 1 | 162.0 | 3.7 | 5 |
| SMBJ110C | ED | 110 | 122.00 | 149.11 | 1 | 196.0 | 3.0 | 5 |
| SMBJ110CA | EE | 110 | 122.00 | 134.84 | 1 | 177.0 | 3.4 | 5 |
| SMBJ120C | EF | 120 | 133.00 | 162.56 | 1 | 214.0 | 2.8 | 5 |
| SMBJ120CA | EG | 120 | 133.00 | 147.00 | 1 | 193.0 | 3.1 | 5 |
| SMBJ130C | EH | 130 | 144.00 | 176.00 | 1 | 231.0 | 2.6 | 5 |
| SMBJ130CA | EK | 130 | 144.00 | 159.16 | 1 | 209.0 | 2.9 | 5 |
| SMBJ150C | EL | 150 | 167.00 | 204.11 | 1 | 269.0 | 2.2 | 5 |
| SMBJ150CA | EM | 150 | 167.00 | 184.58 | 1 | 243.0 | 2.5 | 5 |
| SMBJ160C | EN | 160 | 178.00 | 217.56 | 1 | 287.0 | 2.1 | 5 |
| SMBJ160CA | EP | 160 | 178.00 | 196.74 | 1 | 259.0 | 2.3 | 5 |
| SMBJ170C | EQ | 170 | 189.00 | 231.00 | 1 | 304.0 | 2.0 | 5 |
| SMBJ170CA | ER | 170 | 189.00 | 208.89 | 1 | 275.0 | 2.2 | 5 |
| SMBJ180CA | ET | 180 | 201 | 222 | 1 | 292 | 2.1 | 1 |
| SMBJ200CA | EV | 200 | 224 | 247 | 1 | 324 | 1.9 | 1 |
| SMBJ220CA | EX | 220 | 246 | 272 | 1 | 356 | 1.7 | 1 |
| SMBJ250CA | EZ | 250 | 279 | 309 | 1 | 405 | 1.5 | 1 |
| SMBJ300CA | FE | 300 | 335 | 371 | 1 | 486 | 1.3 | 1 |
| SMBJ350CA | FG | 350 | 391 | 432 | 1 | 567 | 1.1 | 1 |
| SMBJ400CA | FK | 400 | 447 | 494 | 1 | 648 | 0.9 | 1 |
| SMBJ440CA | FM | 440 | 492 | 543 | 1 | 713 | 0.9 | 1 |

"C" Suffix Designates Bi-directional Devices
 "A" Suffix Designates 5% Tolerance Devices
 No Suffix Designates 10% Tolerance Devices
 "-A" Suffix is an AEC-Q101 qualified device

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..

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View SMBJ16CATR on WIN SOURCE](#)
-  [SMC Diode Solutions](#) Information

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management