



THE DATASHEET OF SMBJ43ATR



SMBJ SERIES SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR

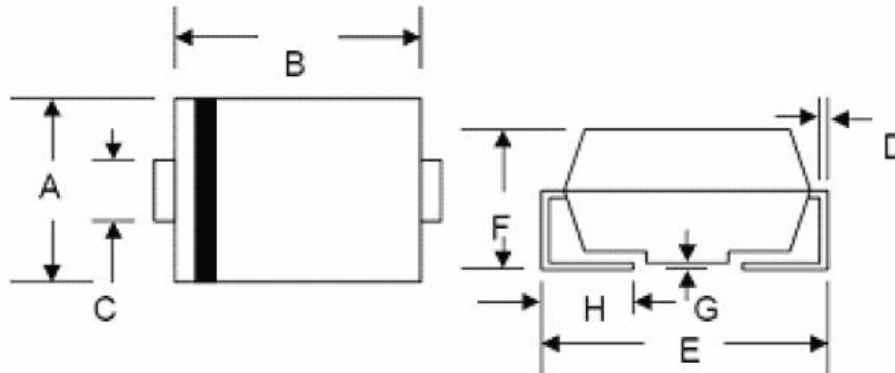
Features:

- 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

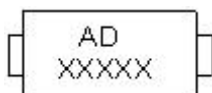
- China - Germany - Korea - Singapore - United States •
- <http://www.smc-diodes.com> - sales@smc-diodes.com •

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

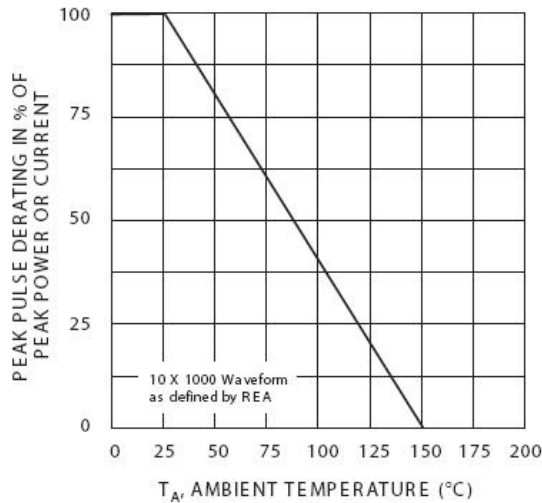


Fig. 1 Pulse Derating Curve

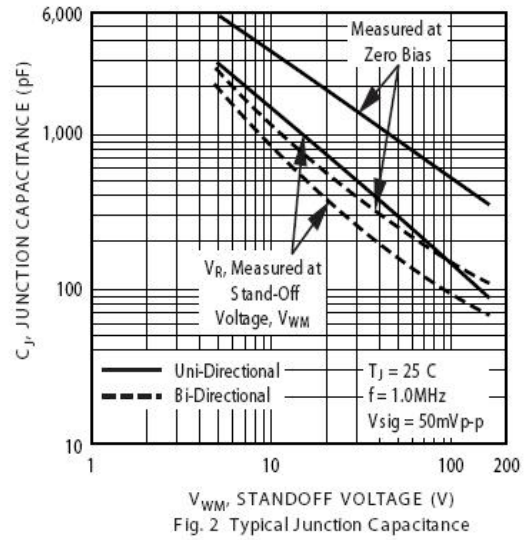


Fig. 2 Typical Junction Capacitance

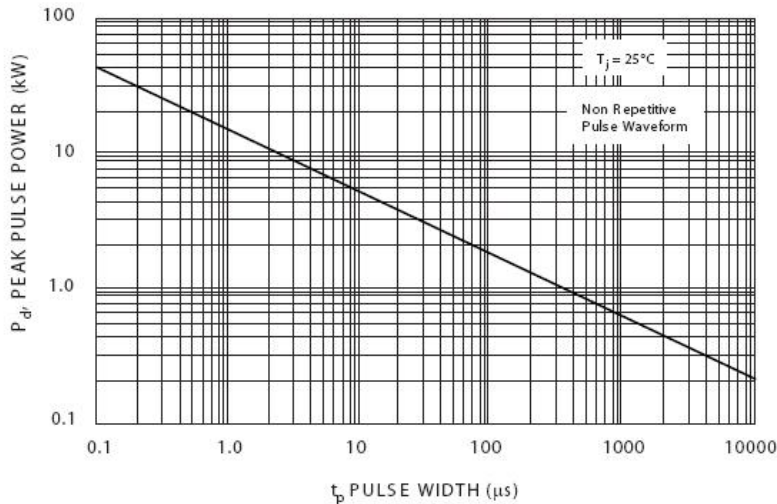


Fig. 3 Pulse Rating Curve

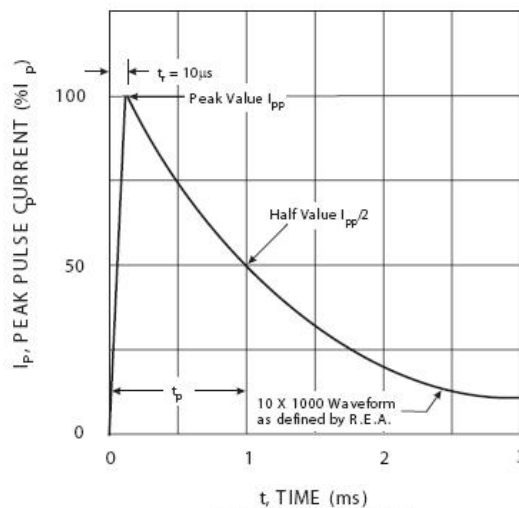


Fig. 4 Pulse Waveform

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 |



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|--------------------------|---------------------|------------------------------------|------------------------------------|------------------------------------|---------------------|-------------------------------------|---------------------------|------------------------------|
| 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 |



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|-------------------------|---------------------|------------------------------------|------------------------------------|------------------------------------|---------------------|-------------------------------------|---------------------------|------------------------------|
| 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

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