



Micro Commercial Components

Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

SMBJ5.0
THRU
SMBJ440CA

Features

- For surface mount applications in order to optimize board space
Low profile package
Fast response time: typical less than 1.0ps from 0 volts to VBR minimum
Low inductance
UL Recognized File # E222849

Transient
Voltage Suppressor
5.0 to 440 Volts
600 Watt

Mechanical Data

- CASE: JEDEC DO-214AA
Terminals: solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes positive end (cathode) except Bidirectional
Maximum soldering temperature: 260°C for 10 seconds

DO-214AA
(SMB) (LEAD FRAME)

Maximum Ratings @ 25°C Unless Otherwise Specified

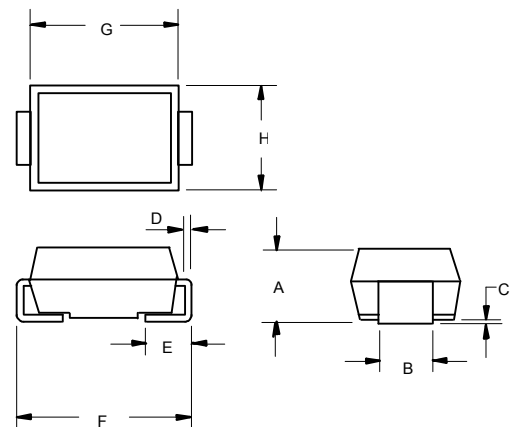


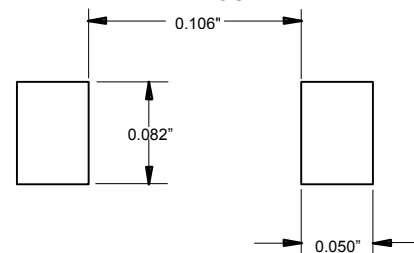
Table with 4 columns: Parameter, Symbol, Value, Note. Rows include Peak Pulse Current, Peak Pulse Power Dissipation, Peak Forward Surge Current, Operation And Storage Temperature Range, Thermal Resistance.

Table titled DIMENSIONS with columns for DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Rows A through H.

NOTES:

- 1. Non-repetitive current pulse, per Fig.3 and derated above TA=25°C per Fig.2.
2. Mounted on 5.0mm² copper pads to each terminal.
3. 8.3ms, single half sine wave duty cycle=4 pulses per. Minute maximum.
4. Peak pulse current waveform is 10/1000us, with maximum duty Cycle of 0.01%.

SUGGESTED SOLDER PAD LAYOUT



SMBJ5.0 THRU SMBJ440CA

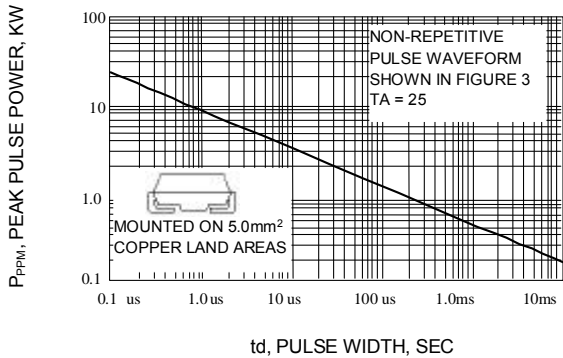


Fig. 1-PEAK PULSE POWER RATING CURVE

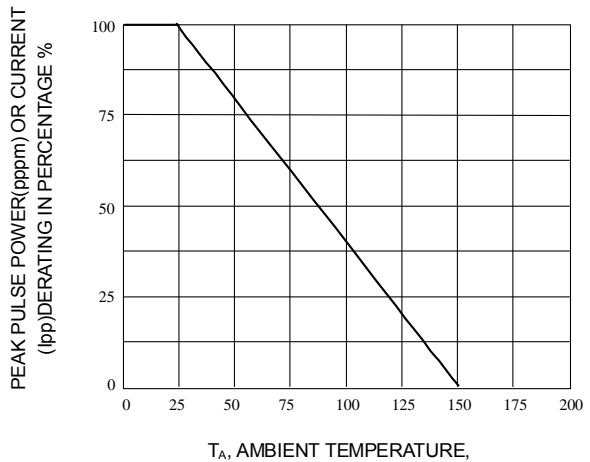


Fig. 2-PULSE DERATING CURVE

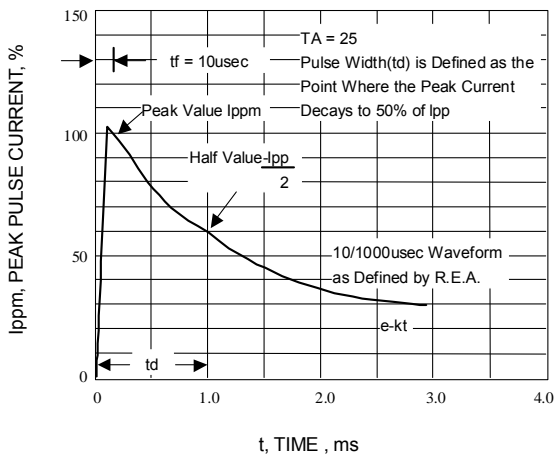


Fig. 3-PULSE WAVEFORM

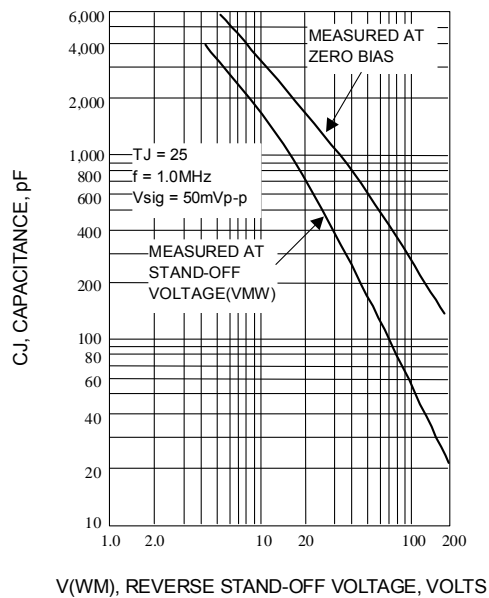


Fig. 4-TYPICAL JUNCTION CAPACITANCE

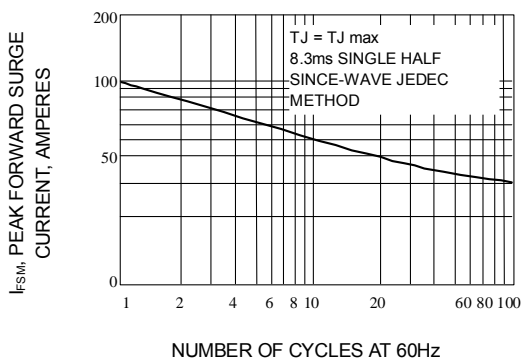


Fig. 5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

SMBJ5.0(A) thru SMBJ440(A)

Electrical Characteristics @ 25°C Unless Otherwise Specified

| MCC PART NUMBER | REVERSE STAND-OFF VOLTAGE | BREAKDOWN VOLTAGE | | | MAXIMUM CLAMPING VOLTAGE@I _{PP} | PEAK PULSE CURRENT I _{PP} | MAXIMUM REVERSE LEAKAGE @V _{WM} | MARKING CODE | | | |
|-----------------|---------------------------|-----------------------------------|------|---------------------|--|------------------------------------|--|--------------|-------|--------|----------------|
| | V _{WM} | V _(BR) @I _T | | I _T (mA) | | | | | VOLTS | (AMPS) | I _b |
| | VOLTS | MIN | MAX | | | | | | | | |
| SMBJ5.0 | 5.0 | 6.40 | 7.30 | 10 | 9.6 | 62.5 | 800 | KD | | | |
| SMBJ5.0A | 5.0 | 6.40 | 7.00 | 10 | 9.2 | 65.2 | 800 | KE | | | |
| SMBJ6.0 | 6.0 | 6.67 | 8.15 | 10 | 11.4 | 52.6 | 800 | KF | | | |
| SMBJ6.0A | 6.0 | 6.67 | 7.37 | 10 | 10.3 | 58.3 | 800 | KG | | | |
| SMBJ6.5 | 6.5 | 7.22 | 8.82 | 10 | 12.3 | 48.7 | 500 | KH | | | |
| SMBJ6.5A | 6.5 | 7.22 | 7.98 | 10 | 11.2 | 53.6 | 500 | KK | | | |
| SMBJ7.0 | 7.0 | 7.78 | 9.51 | 10 | 13.3 | 45.1 | 200 | KL | | | |
| SMBJ7.0A | 7.0 | 7.78 | 8.60 | 10 | 12.0 | 50.0 | 200 | KM | | | |
| SMBJ7.5 | 7.5 | 8.33 | 10.2 | 1 | 14.3 | 42.0 | 100 | KN | | | |
| SMBJ7.5A | 7.5 | 8.33 | 9.21 | 1 | 12.9 | 46.5 | 100 | KP | | | |
| SMBJ8.0 | 8.0 | 8.89 | 10.9 | 1 | 15.0 | 40.0 | 50 | KQ | | | |
| SMBJ8.0A | 8.0 | 8.89 | 9.83 | 1 | 13.6 | 44.1 | 50 | KR | | | |
| SMBJ8.5 | 8.5 | 9.44 | 11.5 | 1 | 15.9 | 37.7 | 10 | KS | | | |
| SMBJ8.5A | 8.5 | 9.44 | 10.4 | 1 | 14.4 | 41.7 | 10 | KT | | | |
| SMBJ9.0 | 9.0 | 10.0 | 12.2 | 1 | 16.9 | 35.5 | 5 | KU | | | |
| SMBJ9.0A | 9.0 | 10.0 | 11.1 | 1 | 15.4 | 39.0 | 5 | KV | | | |
| SMBJ10 | 10 | 11.1 | 13.6 | 1 | 18.8 | 31.9 | 5 | KW | | | |
| SMBJ10A | 10 | 11.1 | 12.3 | 1 | 17.0 | 35.3 | 5 | KX | | | |
| SMBJ11 | 11 | 12.2 | 14.9 | 1 | 20.1 | 29.9 | 5 | KY | | | |
| SMBJ11A | 11 | 12.2 | 13.5 | 1 | 18.2 | 33.0 | 5 | KZ | | | |
| SMBJ12 | 12 | 13.3 | 16.3 | 1 | 22.0 | 27.3 | 5 | LD | | | |
| SMBJ12A | 12 | 13.3 | 14.7 | 1 | 19.9 | 30.2 | 5 | LE | | | |
| SMBJ13 | 13 | 14.4 | 17.6 | 1 | 23.8 | 25.2 | 5 | LF | | | |
| SMBJ13A | 13 | 14.4 | 15.9 | 1 | 21.5 | 27.9 | 5 | LG | | | |
| SMBJ14 | 14 | 15.6 | 19.1 | 1 | 25.8 | 23.3 | 5 | LH | | | |
| SMBJ14A | 14 | 15.6 | 17.2 | 1 | 23.2 | 25.8 | 5 | LK | | | |
| SMBJ15 | 15 | 16.7 | 20.4 | 1 | 26.9 | 22.3 | 5 | LL | | | |
| SMBJ15A | 15 | 16.7 | 18.5 | 1 | 24.4 | 24.0 | 5 | LM | | | |
| SMBJ16 | 16 | 17.8 | 21.8 | 1 | 28.8 | 20.8 | 5 | LN | | | |
| SMBJ16A | 16 | 17.8 | 19.7 | 1 | 26.0 | 23.1 | 5 | LP | | | |
| SMBJ17 | 17 | 18.9 | 23.1 | 1 | 30.5 | 19.7 | 5 | LQ | | | |
| SMBJ17A | 17 | 18.9 | 20.9 | 1 | 27.6 | 21.7 | 5 | LR | | | |
| SMBJ18 | 18 | 20.0 | 24.4 | 1 | 32.2 | 18.6 | 5 | LS | | | |
| SMBJ18A | 18 | 20.0 | 22.1 | 1 | 29.2 | 20.5 | 5 | LT | | | |
| SMBJ20 | 20 | 22.2 | 27.1 | 1 | 35.8 | 16.7 | 5 | LU | | | |
| SMBJ20A | 20 | 22.2 | 24.5 | 1 | 32.4 | 18.5 | 5 | LV | | | |
| SMBJ22 | 22 | 24.4 | 29.8 | 1 | 39.4 | 15.2 | 5 | LW | | | |
| SMBJ22A | 22 | 24.4 | 26.9 | 1 | 35.5 | 16.9 | 5 | LX | | | |
| SMBJ24 | 24 | 26.7 | 32.6 | 1 | 43.0 | 14.0 | 5 | LY | | | |
| SMBJ24A | 24 | 26.7 | 29.5 | 1 | 38.9 | 15.4 | 5 | LZ | | | |
| SMBJ26 | 26 | 28.9 | 35.3 | 1 | 46.6 | 12.4 | 5 | MD | | | |
| SMBJ26A | 26 | 28.9 | 31.9 | 1 | 42.1 | 14.2 | 5 | ME | | | |

SMBJ5.0(A) thru SMBJ440(A)

Electrical Characteristics @ 25°C Unless Otherwise Specified

| MCC PART NUMBER | REVERSE STAND-OFF VOLTAGE | BREAKDOWN VOLTAGE | | | MAXIMUM CLAMPING VOLTAGE@I _{PP} | PEAK PULSE CURRENT I _{PP} | MAXIMUM REVERSE LEAKAGE @V _{WM} | MARKING CODE | | |
|-----------------|---------------------------|-----------------------------------|------|---------------------|--|------------------------------------|--|--------------|-------|------|
| | V _{WM} | V _(BR) @I _T | | I _T (mA) | | | | | VOLTS | (uA) |
| | VOLTS | MIN | MAX | | | | | | | |
| SMBJ28 | 28 | 31.1 | 38.0 | 1 | 50.0 | 12.0 | 5 | MF | | |
| SMBJ28A | 28 | 31.1 | 34.4 | 1 | 45.4 | 13.2 | 5 | MG | | |
| SMBJ30 | 30 | 33.3 | 40.7 | 1 | 53.5 | 11.2 | 5 | MH | | |
| SMBJ30A | 30 | 33.3 | 36.8 | 1 | 48.4 | 12.4 | 5 | MK | | |
| SMBJ33 | 33 | 36.7 | 44.9 | 1 | 59.0 | 10.2 | 5 | ML | | |
| SMBJ33A | 33 | 36.7 | 40.6 | 1 | 53.3 | 11.3 | 5 | MM | | |
| SMBJ36 | 36 | 40.0 | 48.9 | 1 | 64.3 | 9.3 | 5 | MN | | |
| SMBJ36A | 36 | 40.0 | 44.2 | 1 | 58.1 | 10.3 | 5 | MP | | |
| SMBJ40 | 40 | 44.4 | 54.3 | 1 | 71.4 | 8.4 | 5 | MQ | | |
| SMBJ40A | 40 | 44.4 | 49.1 | 1 | 64.5 | 9.3 | 5 | MR | | |
| SMBJ43 | 43 | 47.8 | 58.4 | 1 | 76.7 | 7.8 | 5 | MS | | |
| SMBJ43A | 43 | 47.8 | 52.8 | 1 | 69.4 | 8.6 | 5 | MT | | |
| SMBJ45 | 45 | 50.0 | 61.1 | 1 | 80.3 | 7.5 | 5 | MU | | |
| SMBJ45A | 45 | 50.0 | 55.3 | 1 | 72.7 | 8.3 | 5 | MV | | |
| SMBJ48 | 48 | 53.3 | 65.1 | 1 | 85.5 | 7.0 | 5 | MW | | |
| SMBJ48A | 48 | 53.3 | 58.9 | 1 | 77.4 | 7.7 | 5 | MX | | |
| SMBJ51 | 51 | 56.7 | 69.3 | 1 | 91.1 | 6.6 | 5 | MY | | |
| SMBJ51A | 51 | 56.7 | 62.7 | 1 | 82.4 | 7.3 | 5 | MZ | | |
| SMBJ54 | 54 | 60.0 | 73.3 | 1 | 96.3 | 6.2 | 5 | ND | | |
| SMBJ54A | 54 | 60.0 | 66.3 | 1 | 87.1 | 6.9 | 5 | NE | | |
| SMBJ58 | 58 | 64.4 | 78.7 | 1 | 103 | 5.8 | 5 | NF | | |
| SMBJ58A | 58 | 64.4 | 71.2 | 1 | 93.6 | 6.4 | 5 | NG | | |
| SMBJ60 | 60 | 66.7 | 81.5 | 1 | 107 | 5.6 | 5 | NH | | |
| SMBJ60A | 60 | 66.7 | 73.7 | 1 | 96.8 | 6.2 | 5 | NK | | |
| SMBJ64 | 64 | 71.1 | 86.9 | 1 | 114 | 5.3 | 5 | NL | | |
| SMBJ64A | 64 | 71.1 | 78.6 | 1 | 103 | 5.8 | 5 | NM | | |
| SMBJ70 | 70 | 77.8 | 95.1 | 1 | 125 | 4.8 | 5 | NN | | |
| SMBJ70A | 70 | 77.8 | 86.0 | 1 | 113 | 5.3 | 5 | NP | | |
| SMBJ75 | 75 | 83.3 | 102 | 1 | 134 | 4.5 | 5 | NQ | | |
| SMBJ75A | 75 | 83.3 | 92.1 | 1 | 121 | 4.9 | 5 | NR | | |
| SMBJ78 | 78 | 86.7 | 106 | 1 | 139 | 4.3 | 5 | NS | | |
| SMBJ78A | 78 | 86.7 | 95.8 | 1 | 126 | 4.7 | 5 | NT | | |
| SMBJ85 | 85 | 94.4 | 115 | 1 | 151 | 3.9 | 5 | NU | | |
| SMBJ85A | 85 | 94.4 | 104 | 1 | 137 | 4.4 | 5 | NV | | |
| SMBJ90 | 90 | 100 | 122 | 1 | 160 | 3.8 | 5 | NW | | |
| SMBJ90A | 90 | 100 | 111 | 1 | 146 | 4.1 | 5 | NX | | |
| SMBJ100 | 100 | 111 | 136 | 1 | 179 | 3.4 | 5 | NY | | |
| SMBJ100A | 100 | 111 | 123 | 1 | 162 | 3.7 | 5 | NZ | | |
| SMBJ110 | 110 | 122 | 149 | 1 | 196 | 3.0 | 5 | PD | | |
| SMBJ110A | 110 | 122 | 135 | 1 | 177 | 3.4 | 5 | PE | | |
| SMBJ120 | 120 | 133 | 163 | 1 | 214 | 2.8 | 5 | PF | | |
| SMBJ120A | 120 | 133 | 147 | 1 | 193 | 3.1 | 5 | PG | | |

SMBJ5.0(A) THRU SMBJ440(A)

ELECTRICAL CHARACTERISTICS @25°C

| MCC PART NUMBER | REVERSE STAND-OFF VOLTAGE V_{WM} (VOLTS) | BREAKDOWN VOLTAGE $V_{(BR)}$ @ I_T (VOLTS) | | | MAXIMUM CLAMPING VOLTAGE @ I_{PP} (VOLTS) | PEAK PULSE CURRENT I_{PP} (AMPS) | MAXIMUM REVERSE LEAKAGE @ V_{WM} I_D (μ A) | MARKING CODE |
|--------------------|--|--|-----|------------|---|---|--|-----------------|
| | | MIN | MAX | I_T (mA) | | | | |
| SMBJ130 | 130 | 144 | 176 | 1 | 231 | 2.6 | 5 | PH |
| SMBJ130A | 130 | 144 | 159 | 1 | 209 | 2.9 | 5 | PK |
| SMBJ150 | 150 | 167 | 204 | 1 | 268 | 2.2 | 5 | PL |
| SMBJ150A | 150 | 167 | 185 | 1 | 243 | 2.5 | 5 | PM |
| SMBJ160 | 160 | 178 | 218 | 1 | 287 | 2.1 | 5 | PN |
| SMBJ160A | 160 | 178 | 197 | 1 | 259 | 2.3 | 5 | PP |
| SMBJ170 | 170 | 189 | 231 | 1 | 304 | 2.0 | 5 | PQ |
| SMBJ170A | 170 | 189 | 209 | 1 | 275 | 2.2 | 5 | PR |
| SMBJ180A | 180 | 201 | 222 | 1 | 292 | 2.1 | 5 | PT |
| SMBJ200A | 200 | 224 | 247 | 1 | 324 | 1.9 | 5 | PV |
| SMBJ220A | 220 | 246 | 272 | 1 | 356 | 1.7 | 5 | PX |
| SMBJ250A | 250 | 279 | 309 | 1 | 405 | 1.5 | 5 | PZ |
| SMBJ300A | 300 | 335 | 371 | 1 | 486 | 1.3 | 5 | QE |
| SMBJ350A | 350 | 391 | 432 | 1 | 567 | 1.1 | 5 | QG |
| SMBJ400A | 400 | 447 | 494 | 1 | 648 | 0.9 | 5 | QK |
| SMBJ440A | 440 | 492 | 543 | 1 | 713 | 0.9 | 5 | QM |

SMBJ5.0C(A) thru SMBJ440C(A)

Electrical Characteristics @ 25°C Unless Otherwise Specified

| MCC PART NUMBER | REVERSE STAND-OFF VOLTAGE | BREAKDOWN VOLTAGE | | | MAXIMUM CLAMPING VOLTAGE@I _{PP} | PEAK PULSE CURRENT | MAXIMUM REVERSE LEAKAGE | MARKING CODE |
|-----------------|---------------------------|---|------|---------------------|--|--------------------|-------------------------|--------------|
| | V _{WM} | V _(BR) @I _T (VOLTS) | | | VOLTS | I _{PP} | @V _{WM} | |
| | VOLTS | MIN | MAX | I _T (mA) | (AMPS) | I _b | (uA) | |
| SMBJ5.0C | 5.0 | 6.40 | 7.30 | 10 | 9.6 | 62.5 | 1600 | AD |
| SMBJ5.0CA | 5.0 | 6.40 | 7.00 | 10 | 9.2 | 65.2 | 1600 | AE |
| SMBJ6.0C | 6.0 | 6.67 | 8.15 | 10 | 11.4 | 52.6 | 1600 | AF |
| SMBJ6.0CA | 6.0 | 6.67 | 7.37 | 10 | 10.3 | 58.3 | 1600 | AG |
| SMBJ6.5C | 6.5 | 7.22 | 8.82 | 10 | 12.3 | 48.7 | 1000 | AH |
| SMBJ6.5CA | 6.5 | 7.22 | 7.98 | 10 | 11.2 | 53.6 | 1000 | AK |
| SMBJ7.0C | 7.0 | 7.78 | 9.51 | 10 | 13.3 | 45.1 | 400 | AL |
| SMBJ7.0CA | 7.0 | 7.78 | 8.60 | 10 | 12.0 | 50.0 | 400 | AM |
| SMBJ7.5C | 7.5 | 8.33 | 10.2 | 1 | 14.3 | 42.0 | 200 | AN |
| SMBJ7.5CA | 7.5 | 8.33 | 9.21 | 1 | 12.9 | 46.5 | 200 | AP |
| SMBJ8.0C | 8.0 | 8.89 | 10.9 | 1 | 15.0 | 40.0 | 100 | AQ |
| SMBJ8.0CA | 8.0 | 8.89 | 9.83 | 1 | 13.6 | 44.1 | 100 | AR |
| SMBJ8.5C | 8.5 | 9.44 | 11.5 | 1 | 15.9 | 37.7 | 20 | AS |
| SMBJ8.5CA | 8.5 | 9.44 | 10.4 | 1 | 14.4 | 41.7 | 20 | AT |
| SMBJ9.0C | 9.0 | 10.0 | 12.2 | 1 | 16.9 | 35.5 | 10 | AU |
| SMBJ9.0CA | 9.0 | 10.0 | 11.1 | 1 | 15.4 | 39.0 | 10 | AV |
| SMBJ10C | 10 | 11.1 | 13.6 | 1 | 18.8 | 31.9 | 5 | AW |
| SMBJ10CA | 10 | 11.1 | 12.3 | 1 | 17.0 | 35.3 | 5 | AX |
| SMBJ11C | 11 | 12.2 | 14.9 | 1 | 20.1 | 29.9 | 5 | AY |
| SMBJ11CA | 11 | 12.2 | 13.5 | 1 | 18.2 | 33.0 | 5 | AZ |
| SMBJ12C | 12 | 13.3 | 16.3 | 1 | 22.0 | 27.3 | 5 | BD |
| SMBJ12CA | 12 | 13.3 | 14.7 | 1 | 19.9 | 30.2 | 5 | BE |
| SMBJ13C | 13 | 14.4 | 17.6 | 1 | 23.8 | 25.2 | 5 | BF |
| SMBJ13CA | 13 | 14.4 | 15.9 | 1 | 21.5 | 27.9 | 5 | BG |
| SMBJ14C | 14 | 15.6 | 19.1 | 1 | 25.8 | 23.3 | 5 | BH |
| SMBJ14CA | 14 | 15.6 | 17.2 | 1 | 23.2 | 25.8 | 5 | BK |
| SMBJ15C | 15 | 16.7 | 20.4 | 1 | 26.9 | 22.3 | 5 | BL |
| SMBJ15CA | 15 | 16.7 | 18.5 | 1 | 24.4 | 24.0 | 5 | BM |
| SMBJ16C | 16 | 17.8 | 21.8 | 1 | 28.8 | 20.8 | 5 | BN |
| SMBJ16CA | 16 | 17.8 | 19.7 | 1 | 26.0 | 23.1 | 5 | BP |
| SMBJ17C | 17 | 18.9 | 23.1 | 1 | 30.5 | 19.7 | 5 | BQ |
| SMBJ17CA | 17 | 18.9 | 20.9 | 1 | 27.6 | 21.7 | 5 | BR |
| SMBJ18C | 18 | 20.0 | 24.4 | 1 | 32.2 | 18.6 | 5 | BS |
| SMBJ18CA | 18 | 20.0 | 22.1 | 1 | 29.2 | 20.5 | 5 | BT |
| SMBJ20C | 20 | 22.2 | 27.1 | 1 | 35.8 | 16.7 | 5 | BU |
| SMBJ20CA | 20 | 22.2 | 24.5 | 1 | 32.4 | 18.5 | 5 | BV |
| SMBJ22C | 22 | 24.4 | 29.8 | 1 | 39.4 | 15.2 | 5 | BW |
| SMBJ22CA | 22 | 24.4 | 26.9 | 1 | 35.5 | 16.9 | 5 | BX |
| SMBJ24C | 24 | 26.7 | 32.6 | 1 | 43.0 | 14.0 | 5 | BY |
| SMBJ24CA | 24 | 26.7 | 29.5 | 1 | 38.9 | 15.4 | 5 | BZ |
| SMBJ26C | 26 | 28.9 | 35.3 | 1 | 46.6 | 12.4 | 5 | CD |
| SMBJ26CA | 26 | 28.9 | 31.9 | 1 | 42.1 | 14.2 | 5 | CE |

SMBJ5.0C(A) thru SMBJ440C(A)

Electrical Characteristics @ 25°C Unless Otherwise Specified

| MCC PART NUMBER | REVERSE STAND-OFF VOLTAGE | BREAKDOWN VOLTAGE | | | MAXIMUM CLAMPING VOLTAGE@I _{PP} | PEAK PULSE CURRENT I _{PP} | MAXIMUM REVERSE LEAKAGE @V _{WM} I _b | MARKING CODE |
|-----------------|---------------------------|---|------|---------------------|--|------------------------------------|---|--------------|
| | V _{WM} | V _(BR) @I _T (VOLTS) | | I _T (mA) | | | | |
| | VOLTS | MIN | MAX | | | | | |
| SMBJ28C | 28 | 31.1 | 38.0 | 1 | 50.0 | 12.0 | 5 | CF |
| SMBJ28CA | 28 | 31.1 | 34.4 | 1 | 45.4 | 13.2 | 5 | CG |
| SMBJ30C | 30 | 33.3 | 40.7 | 1 | 53.5 | 11.2 | 5 | CH |
| SMBJ30CA | 30 | 33.3 | 36.8 | 1 | 48.4 | 12.4 | 5 | CK |
| SMBJ33C | 33 | 36.7 | 44.9 | 1 | 59.0 | 10.2 | 5 | CL |
| SMBJ33CA | 33 | 36.7 | 40.6 | 1 | 53.3 | 11.3 | 5 | CM |
| SMBJ36C | 36 | 40.0 | 48.9 | 1 | 64.3 | 9.3 | 5 | CN |
| SMBJ36CA | 36 | 40.0 | 44.2 | 1 | 58.1 | 10.3 | 5 | CP |
| SMBJ40C | 40 | 44.4 | 54.3 | 1 | 71.4 | 8.4 | 5 | CQ |
| SMBJ40CA | 40 | 44.4 | 49.1 | 1 | 64.5 | 9.3 | 5 | CR |
| SMBJ43C | 43 | 47.8 | 58.4 | 1 | 76.7 | 7.8 | 5 | CS |
| SMBJ43CA | 43 | 47.8 | 52.8 | 1 | 69.4 | 8.6 | 5 | CT |
| SMBJ45C | 45 | 50.0 | 61.1 | 1 | 80.3 | 7.5 | 5 | CU |
| SMBJ45CA | 45 | 50.0 | 55.3 | 1 | 72.7 | 8.3 | 5 | CV |
| SMBJ48C | 48 | 53.3 | 65.1 | 1 | 85.5 | 7.0 | 5 | CW |
| SMBJ48CA | 48 | 53.3 | 58.9 | 1 | 77.4 | 7.7 | 5 | CX |
| SMBJ51C | 51 | 56.7 | 69.3 | 1 | 91.1 | 6.6 | 5 | CY |
| SMBJ51CA | 51 | 56.7 | 62.7 | 1 | 82.4 | 7.3 | 5 | CZ |
| SMBJ54C | 54 | 60.0 | 73.3 | 1 | 96.3 | 6.2 | 5 | DD |
| SMBJ54CA | 54 | 60.0 | 66.3 | 1 | 87.1 | 6.9 | 5 | DE |
| SMBJ58C | 58 | 64.4 | 78.7 | 1 | 103 | 5.8 | 5 | DF |
| SMBJ58CA | 58 | 64.4 | 71.2 | 1 | 93.6 | 6.4 | 5 | DG |
| SMBJ60C | 60 | 66.7 | 81.5 | 1 | 107 | 5.6 | 5 | DH |
| SMBJ60CA | 60 | 66.7 | 73.7 | 1 | 96.8 | 6.2 | 5 | DK |
| SMBJ64C | 64 | 71.1 | 86.9 | 1 | 114 | 5.3 | 5 | DL |
| SMBJ64CA | 64 | 71.1 | 78.6 | 1 | 103 | 5.8 | 5 | DM |
| SMBJ70C | 70 | 77.8 | 95.1 | 1 | 125 | 4.8 | 5 | DN |
| SMBJ70CA | 70 | 77.8 | 86.0 | 1 | 113 | 5.3 | 5 | DP |
| SMBJ75C | 75 | 83.3 | 102 | 1 | 134 | 4.5 | 5 | DQ |
| SMBJ75CA | 75 | 83.3 | 92.1 | 1 | 121 | 4.9 | 5 | DR |
| SMBJ78C | 78 | 86.7 | 106 | 1 | 139 | 4.3 | 5 | DS |
| SMBJ78CA | 78 | 86.7 | 95.8 | 1 | 126 | 4.7 | 5 | DT |
| SMBJ85C | 85 | 94.4 | 115 | 1 | 151 | 3.9 | 5 | DU |
| SMBJ85CA | 85 | 94.4 | 104 | 1 | 137 | 4.4 | 5 | DV |
| SMBJ90C | 90 | 100 | 122 | 1 | 160 | 3.8 | 5 | DW |
| SMBJ90CA | 90 | 100 | 111 | 1 | 146 | 4.1 | 5 | DX |
| SMBJ100C | 100 | 111 | 136 | 1 | 179 | 3.4 | 5 | DY |
| SMBJ100CA | 100 | 111 | 123 | 1 | 162 | 3.7 | 5 | DZ |
| SMBJ110C | 110 | 122 | 149 | 1 | 196 | 3.0 | 5 | ED |
| SMBJ110CA | 110 | 122 | 135 | 1 | 177 | 3.4 | 5 | EE |
| SMBJ120C | 120 | 133 | 163 | 1 | 214 | 2.8 | 5 | EF |
| SMBJ120CA | 120 | 133 | 147 | 1 | 193 | 3.1 | 5 | EG |

SMBJ5.0C(A) THRU SMBJ440C(A)

ELECTRICAL CHARACTERISTICS @25°C

| MCC PART NUMBER | REVERSE STAND-OFF VOLTAGE V_{WM} (VOLTS) | BREAKDOWN VOLTAGE $V_{(BR)}$ @ I_T (VOLTS) | | | MAXIMUM CLAMPING VOLTAGE @ I_{PP} (VOLTS) | PEAK PULSE CURRENT I_{PP} (AMPS) | MAXIMUM REVERSE LEAKAGE @ V_{WM} I_D (μ A) | MARKING CODE |
|--------------------|--|--|-----|------------|---|---|--|-----------------|
| | | MIN | MAX | I_T (mA) | | | | |
| SMBJ130C | 130 | 144 | 176 | 1 | 231 | 2.6 | 5 | EH |
| SMBJ130CA | 130 | 144 | 159 | 1 | 209 | 2.9 | 5 | EK |
| SMBJ150C | 150 | 167 | 204 | 1 | 268 | 2.2 | 5 | EL |
| SMBJ150CA | 150 | 167 | 185 | 1 | 243 | 2.5 | 5 | EM |
| SMBJ160C | 160 | 178 | 218 | 1 | 287 | 2.1 | 5 | EN |
| SMBJ160CA | 160 | 178 | 197 | 1 | 259 | 2.3 | 5 | EP |
| SMBJ170C | 170 | 189 | 231 | 1 | 304 | 2.0 | 5 | EQ |
| SMBJ170CA | 170 | 189 | 209 | 1 | 275 | 2.2 | 5 | ER |
| SMBJ180CA | 180 | 201 | 222 | 1 | 292 | 2.1 | 5 | ET |
| SMBJ200CA | 200 | 224 | 247 | 1 | 324 | 1.9 | 5 | EV |
| SMBJ220CA | 220 | 246 | 272 | 1 | 356 | 1.7 | 5 | EX |
| SMBJ250CA | 250 | 279 | 309 | 1 | 405 | 1.5 | 5 | EZ |
| SMBJ300CA | 300 | 335 | 371 | 1 | 486 | 1.3 | 5 | FE |
| SMBJ350CA | 350 | 391 | 432 | 1 | 567 | 1.1 | 5 | FG |
| SMBJ400CA | 400 | 447 | 494 | 1 | 648 | 0.9 | 5 | FK |
| SMBJ440CA | 440 | 492 | 543 | 1 | 713 | 0.9 | 5 | FM |