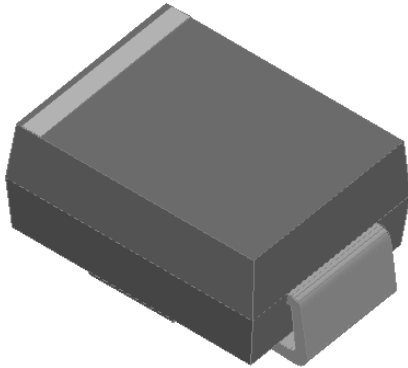


## Surface Mount Transient Voltage Suppressors

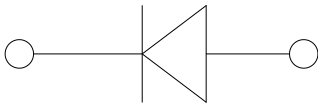


### Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- Available in Unidirectional and Bidirectional
- 600 W peak pulse power capability with a 10/1000  $\mu$ s waveform, repetitive rate (duty cycle): 0.01 %
- Excellent clamping capability
- Very fast response time
- Low incremental surge resistance
- Meets MSL level 1, per J-STD-020C, LF max peak of 260 °C
- Solder Dip 260 °C, 10 seconds
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

### Typical Applications

Use in sensitive electronics protection against voltage transients induced by inductive load switching and lighting on ICs, MOSFET, signal lines of sensor units for consumer, computer, industrial, telecommunication.



### Mechanical Data

- **Package:** DO-214AA (SMB)  
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals:** Matte tin plated leads, solderable per J-STD-002B and JESD22-B102D
- **Polarity:** Color band denotes cathode end

### ■ Maximum Ratings ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

| PARAMETER  | SYMBOL         | UNIT             | Max            |
|--|----------------|------------------|----------------|
| Peak power dissipation, with a 10/1000us waveform (1) (2) (Fig.1)                | PPPM           | W                | 600            |
| Peak pulse current, with a 10/1000us waveform(1)                                 | IPPM           | A                | See Next Table |
| Power dissipation, on infinite heat sink at $T_L=75^\circ\text{C}$               | PD             | W                | 5.0            |
| Peak forward surge current, 8.3 ms single half sine-wave unidirectional only (2) | IFSM           | A                | 100            |
| Operating junction and storage temperature range                                 | $T_J, T_{STG}$ | $^\circ\text{C}$ | -55 to +150    |

### ■ Electrical Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

| PARAMETER  | SYMBOL | UNIT | VALUE   |
|--|--------|------|---------|
| Maximum instantaneous forward voltage @ at 50A for unidirectional only (3) | VF     | V    | 3.5/5.0 |



# SMBJ SERIES

## ■ Thermal Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

| PARAMETER                   | SYMBOL           | UNIT | Conditions          | VALUE |
|-----------------------------|------------------|------|---------------------|-------|
| Thermal resistance(Typical) | R <sub>θJL</sub> | °C/W | junction to lead    | 20    |
|                             | R <sub>θJA</sub> | °C/W | junction to ambient | 100   |

Notes:

- (1) Non-repetitive current pulse, per Fig. 3 and derated above T<sub>A</sub>= 25°C per Fig.2.
- (2) Mounted on 0.2 x 0.2" (5.0 x 5.0 mm) copper pads to each terminal
- (3) VF<3.5V for devices of VBR<200V and VF<5.0V for devices of VBR>201V

## ■ Ordering Information (Example)

| PREFERRED P/N     | PACKING CODE | UNIT WEIGHT(g)     | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|-------------------|--------------|--------------------|----------------------|-------------------------|----------------------------|---------------|
| SMBJ5.0-SMBJ400CA | F1           | Approximate 0.0975 | 3000                 | 6000                    | 48000                      | 13" reel      |
| SMBJ5.0-SMBJ400CA | F2           | Approximate 0.0975 | 750                  | 3000                    | 24000                      | 7" reel       |
| SMBJ5.0-SMBJ400CA | F3           | Approximate 0.0975 | 500                  | 2000                    | 16000                      | 7" reel       |

## ■ Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

| Part Number(Uni) | Part Number(Bi)          | Breakdown Voltage V <sub>BR</sub> @I <sub>T</sub> |         |                        | Maximum Reverse Leakage I <sub>R</sub> @ V <sub>WM</sub> <sup>(6)</sup> (μA) | Working Peak Reverse Voltage V <sub>RWM</sub> (V) | Maximum Reverse Surge Current IPP <sup>(5)</sup> (A) | Maximum Clamping Voltage Vc @ I <sub>PP</sub> (V) |
|------------------|--------------------------|---|---------|------------------------|--|---|--|---|
|                  |                          | Min(V)  | Max (V) | IT <sup>(4)</sup> (mA) |  |   |  |   |
| SMBJ5.0          | SMBJ5.0C                 | 6.40  | 7.30    | 10                     | 800  | 5.0   | 62.5   | 9.6   |
| SMBJ5.0A         | SMBJ5.0CA <sup>(4)</sup> | 6.40  | 7.07    | 10                     | 800  | 5.0   | 65.2   | 9.2   |
| SMBJ6.0          | SMBJ6.0C                 | 6.67  | 8.15    | 10                     | 800  | 6.0   | 52.6   | 11.4  |
| SMBJ6.0A         | SMBJ6.0CA                | 6.67  | 7.37    | 10                     | 800  | 6.0   | 58.3   | 10.3  |
| SMBJ6.5          | SMBJ6.5C                 | 7.22  | 8.82    | 10                     | 500  | 6.5   | 48.8   | 12.3  |
| SMBJ6.5A         | SMBJ6.5CA                | 7.22  | 7.98    | 10                     | 500  | 6.5   | 53.6   | 11.2  |
| SMBJ7.0          | SMBJ7.0C                 | 7.78  | 9.51    | 10                     | 200  | 7.0   | 45.1   | 13.3  |
| SMBJ7.0A         | SMBJ7.0CA                | 7.78  | 8.60    | 10                     | 200  | 7.0   | 50.0   | 12.0  |
| SMBJ7.5          | SMBJ7.5C                 | 8.33  | 10.20   | 1.0                    | 100  | 7.5   | 42.0   | 14.3  |
| SMBJ7.5A         | SMBJ7.5CA                | 8.33  | 9.21    | 1.0                    | 100  | 7.5   | 46.5   | 12.9  |
| SMBJ8.0          | SMBJ8.0C                 | 8.89  | 10.90   | 1.0                    | 50   | 8.0   | 40.0   | 15.0  |
| SMBJ8.0A         | SMBJ8.0CA                | 8.89  | 9.83    | 1.0                    | 50   | 8.0   | 44.1   | 13.6  |
| SMBJ8.5          | SMBJ8.5C                 | 9.44  | 11.50   | 1.0                    | 10   | 8.5   | 37.7   | 15.9  |
| SMBJ8.5A         | SMBJ8.5CA                | 9.44  | 10.4    | 1.0                    | 10   | 8.5   | 41.7   | 14.4  |
| SMBJ9.0          | SMBJ9.0C                 | 10.00   | 12.20   | 1.0                    | 5.0  | 9.0   | 35.5   | 16.9  |
| SMBJ9.0A         | SMBJ9.0CA                | 10.00   | 11.10   | 1.0                    | 5.0  | 9.0   | 39.0   | 15.4  |
| SMBJ10           | SMBJ10C                  | 11.10   | 13.60   | 1.0                    | 5.0  | 10.0  | 31.9   | 18.8  |
| SMBJ10A          | SMBJ10CA                 | 11.10   | 12.30   | 1.0                    | 5.0  | 10.0  | 35.3   | 17.0  |
| SMBJ11           | SMBJ11C                  | 12.20   | 14.90   | 1.0                    | 5.0  | 11.0  | 29.8   | 20.1  |
| SMBJ11A          | SMBJ11CA                 | 12.20   | 13.50   | 1.0                    | 5.0  | 11.0  | 33.0   | 18.2  |
| SMBJ12           | SMBJ12C                  | 13.30   | 16.30   | 1.0                    | 5.0  | 12.0  | 27.3   | 22.0  |
| SMBJ12A          | SMBJ12CA                 | 13.30   | 14.70   | 1.0                    | 5.0  | 12.0  | 30.2   | 19.9  |
| SMBJ13           | SMBJ13C                  | 14.40   | 17.60   | 1.0                    | 5.0  | 13.0  | 25.2   | 23.8  |
| SMBJ13A          | SMBJ13CA                 | 14.40   | 15.90   | 1.0                    | 5.0  | 13.0  | 27.9   | 21.5  |



# SMBJ SERIES

## ■Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

| Part Number(Uni) | Part Number(Bi) | Breakdown Voltage V <sub>BR</sub> @I <sub>T</sub> |         |                        | Maximum Reverse Leakage I <sub>R</sub> @ V <sub>WM</sub> <sup>(6)</sup> (μA) | Working Peak Reverse Voltage V <sub>RWM</sub> (V) | Maximum Reverse Surge Current IPP <sup>(5)</sup> (A)<br>Min(V) | Maximum Clamping Voltage V <sub>c</sub> @ I <sub>FP</sub> (V)<br>Max (V) |
|------------------|-----------------|---|---------|------------------------|--|---|--|--|
|                  |                 | Min(V)  | Max (V) | IT <sup>(4)</sup> (mA) |  |   |  |  |
| SMBJ14           | SMBJ14C         | 15.60   | 19.10   | 1.0                    | 5.0  | 14.0  | 23.2   | 25.8   |
| SMBJ14A          | SMBJ14CA        | 15.60   | 17.20   | 1.0                    | 5.0  | 14.0  | 25.9   | 23.2   |
| SMBJ15           | SMBJ15C         | 16.70   | 20.40   | 1.0                    | 5.0  | 15.0  | 22.3   | 26.9   |
| SMBJ15A          | SMBJ15CA        | 16.70   | 18.50   | 1.0                    | 5.0  | 15.0  | 24.6   | 24.4   |
| SMBJ16           | SMBJ16C         | 17.80   | 21.80   | 1.0                    | 5.0  | 16.0  | 20.8   | 28.8   |
| SMBJ16A          | SMBJ16CA        | 17.80   | 19.70   | 1.0                    | 5.0  | 16.0  | 23.1   | 26.0   |
| SMBJ17           | SMBJ17C         | 18.90   | 23.10   | 1.0                    | 5.0  | 17.0  | 19.6   | 30.5   |
| SMBJ17A          | SMBJ17CA        | 18.90   | 20.90   | 1.0                    | 5.0  | 17.0  | 21.7   | 27.6   |
| SMBJ18           | SMBJ18C         | 20.00   | 24.40   | 1.0                    | 5.0  | 18.0  | 18.6   | 32.2   |
| SMBJ18A          | SMBJ18CA        | 20.00   | 22.10   | 1.0                    | 5.0  | 18.0  | 20.5   | 29.2   |
| SMBJ19           | SMBJ19C         | 21.10   | 25.70   | 1.0                    | 5.0  | 19.0  | 17.6   | 34.0   |
| SMBJ19A          | SMBJ19CA        | 21.10   | 23.30   | 1.0                    | 5.0  | 19.0  | 19.5   | 30.8   |
| SMBJ20           | SMBJ20C         | 22.20   | 27.10   | 1.0                    | 5.0  | 20.0  | 16.7   | 35.8   |
| SMBJ20A          | SMBJ20CA        | 22.20   | 24.50   | 1.0                    | 5.0  | 20.0  | 18.5   | 32.4   |
| SMBJ22           | SMBJ22C         | 24.40   | 29.80   | 1.0                    | 5.0  | 22.0  | 15.2   | 39.4   |
| SMBJ22A          | SMBJ22CA        | 24.40   | 26.90   | 1.0                    | 5.0  | 22.0  | 16.9   | 35.5   |
| SMBJ24           | SMBJ24C         | 26.70   | 32.60   | 1.0                    | 5.0  | 24.0  | 14.0   | 43.0   |
| SMBJ24A          | SMBJ24CA        | 26.70   | 29.50   | 1.0                    | 5.0  | 24.0  | 15.4   | 38.9   |
| SMBJ26           | SMBJ26C         | 28.90   | 35.30   | 1.0                    | 5.0  | 26.0  | 12.9   | 46.6   |
| SMBJ26A          | SMBJ26CA        | 28.90   | 31.90   | 1.0                    | 5.0  | 26.0  | 14.3   | 42.1   |
| SMBJ28           | SMBJ28C         | 31.10   | 38.00   | 1.0                    | 5.0  | 28.0  | 12.0   | 50.0   |
| SMBJ28A          | SMBJ28CA        | 31.10   | 34.40   | 1.0                    | 5.0  | 28.0  | 13.2   | 45.4   |
| SMBJ30           | SMBJ30C         | 33.30   | 40.70   | 1.0                    | 5.0  | 30.0  | 11.2   | 53.5   |
| SMBJ30A          | SMBJ30CA        | 33.30   | 36.80   | 1.0                    | 5.0  | 30.0  | 12.4   | 48.4   |
| SMBJ33           | SMBJ33C         | 36.70   | 44.90   | 1.0                    | 5.0  | 33.0  | 10.2   | 59.0   |
| SMBJ33A          | SMBJ33CA        | 36.70   | 40.60   | 1.0                    | 5.0  | 33.0  | 11.3   | 53.3   |
| SMBJ36           | SMBJ36C         | 40.00   | 48.90   | 1.0                    | 5.0  | 36.0  | 9.3  | 64.3   |
| SMBJ36A          | SMBJ36CA        | 40.00   | 44.20   | 1.0                    | 5.0  | 36.0  | 10.3   | 58.1   |
| SMBJ40           | SMBJ40C         | 44.40   | 54.30   | 1.0                    | 5.0  | 40.0  | 8.4  | 71.4   |
| SMBJ40A          | SMBJ40CA        | 44.40   | 49.10   | 1.0                    | 5.0  | 40.0  | 9.3  | 64.5   |
| SMBJ43           | SMBJ43C         | 47.80   | 58.40   | 1.0                    | 5.0  | 43.0  | 7.8  | 76.7   |
| SMBJ43A          | SMBJ43CA        | 47.80   | 52.80   | 1.0                    | 5.0  | 43.0  | 8.6  | 69.4   |
| SMBJ45           | SMBJ45C         | 50.00   | 61.10   | 1.0                    | 5.0  | 45.0  | 7.5  | 80.3   |
| SMBJ45A          | SMBJ45CA        | 50.00   | 55.30   | 1.0                    | 5.0  | 45.0  | 8.3  | 72.7   |
| SMBJ48           | SMBJ48C         | 53.30   | 65.10   | 1.0                    | 5.0  | 48.0  | 7.0  | 85.5   |
| SMBJ48A          | SMBJ48CA        | 53.30   | 58.90   | 1.0                    | 5.0  | 48.0  | 7.8  | 77.4   |
| SMBJ51           | SMBJ51C         | 56.70   | 69.30   | 1.0                    | 5.0  | 51.0  | 6.6  | 91.1   |
| SMBJ51A          | SMBJ51CA        | 56.70   | 62.70   | 1.0                    | 5.0  | 51.0  | 7.3  | 82.4   |
| SMBJ54           | SMBJ54C         | 60.00   | 73.30   | 1.0                    | 5.0  | 54.0  | 6.2  | 96.3   |
| SMBJ54A          | SMBJ54CA        | 60.00   | 66.30   | 1.0                    | 5.0  | 54.0  | 6.9  | 87.1   |
| SMBJ58           | SMBJ58C         | 64.40   | 78.70   | 1.0                    | 5.0  | 58.0  | 5.8  | 103.0  |



# SMBJ SERIES

## ■Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

| Part Number(Uni) | Part Number(Bi) | Breakdown Voltage V <sub>BR</sub> @I <sub>T</sub> |         |                        | Maximum Reverse Leakage<br>I <sub>R</sub> @ V <sub>WM</sub><br>( <sup>(6)</sup> μA) | Working Peak Reverse Voltage<br>V <sub>RWM</sub> (V) | Maximum Reverse Surge Current IPP <sup>(5)</sup><br>(A)<br>Min(V) | Maximum Clamping Voltage Vc<br>@ I <sub>PP</sub><br>(V)<br>Max (V) |
|------------------|-----------------|---|---------|------------------------|---|--|---|--|
|                  |                 | Min(V)  | Max (V) | IT <sup>(4)</sup> (mA) |   |  |   |  |
| SMBJ58A          | SMBJ58CA        | 64.40   | 71.20   | 1.0                    | 5.0   | 58.0   | 6.4   | 93.6   |
| SMBJ60           | SMBJ60C         | 66.70   | 81.50   | 1.0                    | 5.0   | 60.0   | 5.6   | 107.0  |
| SMBJ60A          | SMBJ60CA        | 66.70   | 73.70   | 1.0                    | 5.0   | 60.0   | 6.2   | 96.8   |
| SMBJ64           | SMBJ64C         | 71.10   | 86.90   | 1.0                    | 5.0   | 64.0   | 5.2   | 114.0  |
| SMBJ64A          | SMBJ64CA        | 71.10   | 78.60   | 1.0                    | 5.0   | 64.0   | 5.8   | 103.0  |
| SMBJ70           | SMBJ70C         | 77.80   | 95.10   | 1.0                    | 5.0   | 70.0   | 4.8   | 125.0  |
| SMBJ70A          | SMBJ70CA        | 77.80   | 86.00   | 1.0                    | 5.0   | 70.0   | 5.3   | 113.0  |
| SMBJ75           | SMBJ75C         | 83.30   | 102.00  | 1.0                    | 5.0   | 75.0   | 4.5   | 134.0  |
| SMBJ75A          | SMBJ75CA        | 83.30   | 92.10   | 1.0                    | 5.0   | 75.0   | 5.0   | 121.0  |
| SMBJ78           | SMBJ78C         | 86.70   | 106.00  | 1.0                    | 5.0   | 78.0   | 4.3   | 139.0  |
| SMBJ78A          | SMBJ78CA        | 86.70   | 95.80   | 1.0                    | 5.0   | 78.0   | 4.8   | 126.0  |
| SMBJ80           | SMBJ80C         | 88.90   | 108.80  | 1.0                    | 5.0   | 80.0   | 4.2   | 143.2  |
| SMBJ80A          | SMBJ80CA        | 88.80   | 97.60   | 1.0                    | 5.0   | 80.0   | 4.6   | 129.6  |
| SMBJ85           | SMBJ85C         | 94.40   | 115.00  | 1.0                    | 5.0   | 85.0   | 4.0   | 151.0  |
| SMBJ85A          | SMBJ85CA        | 94.40   | 104.00  | 1.0                    | 5.0   | 85.0   | 4.4   | 137.0  |
| SMBJ90           | SMBJ90C         | 100.00  | 122.00  | 1.0                    | 5.0   | 90.0   | 3.7   | 160.0  |
| SMBJ90A          | SMBJ90CA        | 100.00  | 111.00  | 1.0                    | 5.0   | 90.0   | 4.1   | 146.0  |
| SMBJ100          | SMBJ100C        | 111.00  | 136.00  | 1.0                    | 5.0   | 100.0  | 3.3   | 179.0  |
| SMBJ100A         | SMBJ100CA       | 111.00  | 123.00  | 1.0                    | 5.0   | 100.0  | 3.7   | 162.0  |
| SMBJ110          | SMBJ110C        | 122.00  | 149.00  | 1.0                    | 5.0   | 110.0  | 3.1   | 196.0  |
| SMBJ110A         | SMBJ110CA       | 122.00  | 135.00  | 1.0                    | 5.0   | 110.0  | 3.4   | 177.0  |
| SMBJ120          | SMBJ120C        | 133.00  | 163.00  | 1.0                    | 5.0   | 120.0  | 2.8   | 214.0  |
| SMBJ120A         | SMBJ120CA       | 133.00  | 147.00  | 1.0                    | 5.0   | 120.0  | 3.1   | 193.0  |
| SMBJ130          | SMBJ130CA       | 144.00  | 176.00  | 1.0                    | 5.0   | 130.0  | 2.6   | 231.0  |
| SMBJ130A         | SMBJ130CA       | 144.00  | 159.00  | 1.0                    | 5.0   | 130.0  | 2.9   | 209.0  |
| SMBJ140          | SMBJ140C        | 155.70  | 190.40  | 1.0                    | 5.0   | 140.0  | 2.4   | 250.6  |
| SMBJ140A         | SMBJ140CA       | 155.00  | 171.00  | 1.0                    | 5.0   | 140.0  | 2.6   | 226.8  |
| SMBJ150          | SMBJ150C        | 167.00  | 204.00  | 1.0                    | 5.0   | 150.0  | 2.2   | 268.0  |
| SMBJ150A         | SMBJ150CA       | 167.00  | 185.00  | 1.0                    | 5.0   | 150.0  | 2.5   | 243.0  |
| SMBJ160          | SMBJ160C        | 178.00  | 218.00  | 1.0                    | 5.0   | 160.0  | 2.1   | 287.0  |
| SMBJ160A         | SMBJ160CA       | 178.00  | 197.00  | 1.0                    | 5.0   | 160.0  | 2.3   | 259.0  |
| SMBJ170          | SMBJ170C        | 189.00  | 231.00  | 1.0                    | 5.0   | 170.0  | 2.0   | 304.0  |
| SMBJ170A         | SMBJ170CA       | 189.00  | 209.00  | 1.0                    | 5.0   | 170.0  | 2.2   | 275.0  |
| SMBJ180          | SMBJ180C        | 200.20  | 244.80  | 1.0                    | 5.0   | 180.0  | 1.8   | 322.2  |
| SMBJ180A         | SMBJ180CA       | 200.00  | 220.00  | 1.0                    | 5.0   | 180.0  | 2.1   | 291.6  |
| SMBJ190          | SMBJ190C        | 211.30  | 258.40  | 1.0                    | 5.0   | 190.0  | 1.7   | 340.1  |
| SMBJ190A         | SMBJ190CA       | 211.00  | 232.00  | 1.0                    | 5.0   | 190.0  | 1.9   | 307.8  |
| SMBJ200A         | SMBJ200CA       | 224.00  | 247.00  | 1.0                    | 5.0   | 200.0  | 1.8   | 324.0  |
| SMBJ220A         | SMBJ220CA       | 246.00  | 272.00  | 1.0                    | 5.0   | 220.0  | 1.7   | 356.0  |
| SMBJ250A         | SMBJ250CA       | 279.00  | 309.00  | 1.0                    | 5.0   | 250.0  | 1.5   | 405.0  |
| SMBJ300A         | SMBJ300CA       | 335.00  | 371.00  | 1.0                    | 5.0   | 300.0  | 1.2   | 486.0  |



# SMBJ SERIES

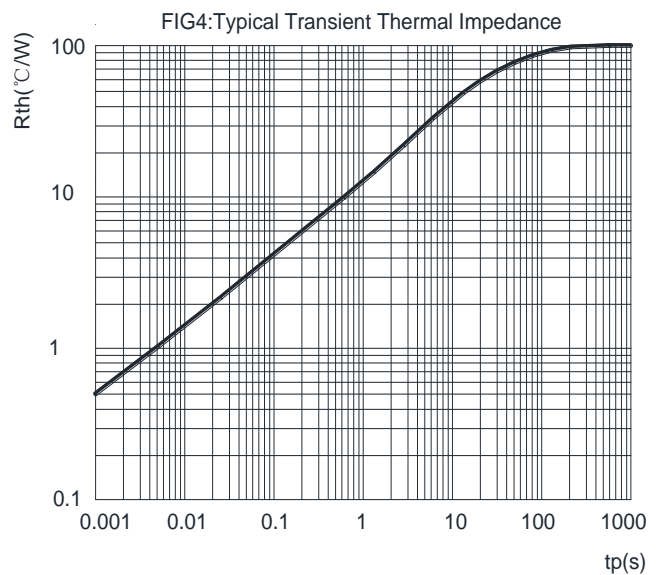
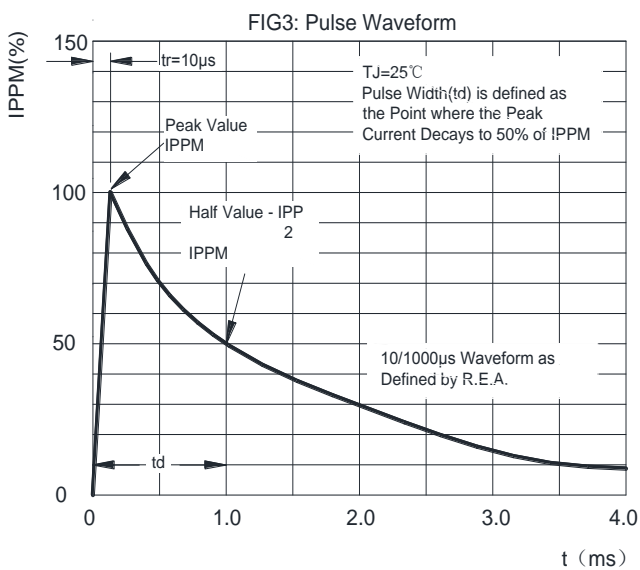
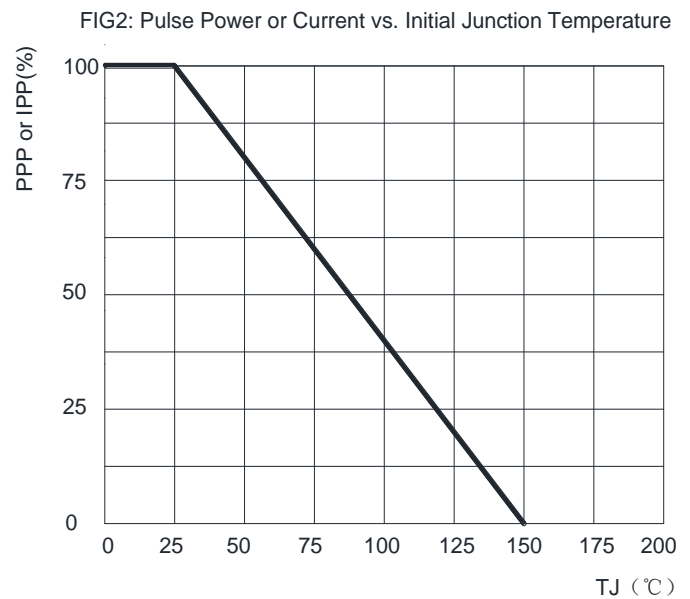
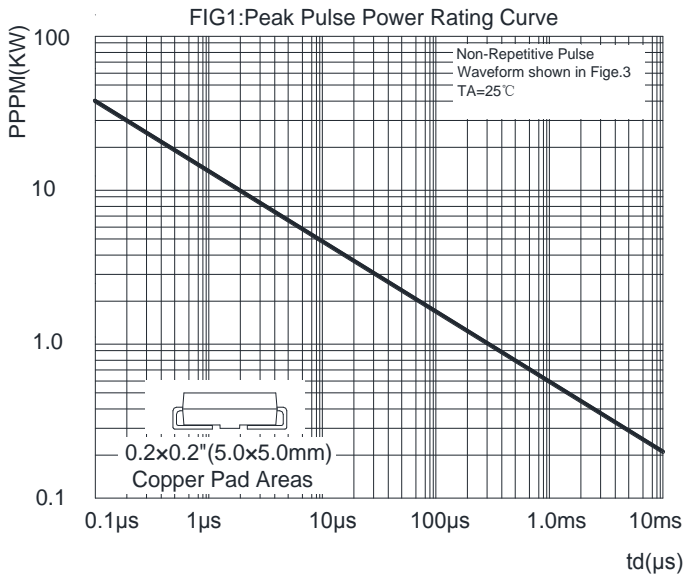
## ■ Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

| Part Number(Uni) | Part Number(Bi) | Breakdown Voltage V <sub>BR</sub> @I <sub>T</sub> |         |                                    | Maximum Reverse Leakage I <sub>R</sub> @ V <sub>WM</sub> <sup>(6)</sup> (μA) | Working Peak Reverse Voltage V <sub>RWM</sub> (V) | Maximum Reverse Surge Current IPP <sup>(5)</sup> (A) Min(V) | Maximum Clamping Voltage V <sub>c</sub> @ I <sub>PP</sub> (V) Max (V) |
|------------------|-----------------|---|---------|------------------------------------|--|---|---|---|
|                  |                 | Min(V)  | Max (V) | I <sub>T</sub> <sup>(4)</sup> (mA) |  |   |   |   |
| SMBJ350A         | SMBJ350CA       | 391.00  | 432.00  | 1.0                                | 5.0  | 350.0   | 1.0   | 567.0   |
| SMBJ400A         | SMBJ400CA       | 447.00  | 494.00  | 1.0                                | 5.0  | 400.0   | 0.9   | 648.0   |
| SMBJ440A         | SMBJ440CA       | 492.00  | 543.00  | 1.0                                | 5.0  | 440.0   | 0.8   | 713.0   |

Notes:

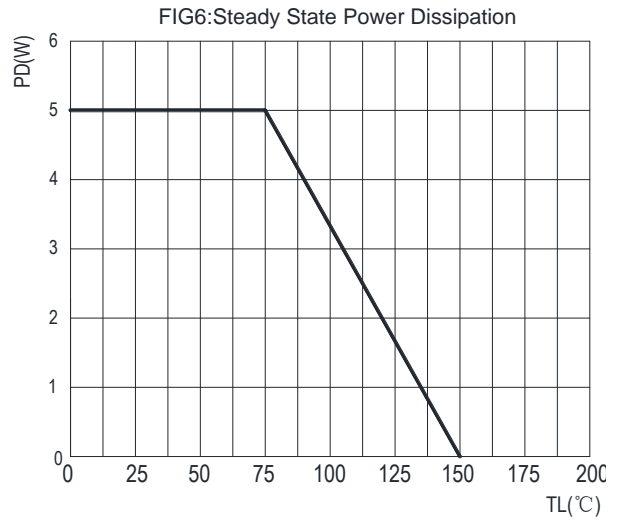
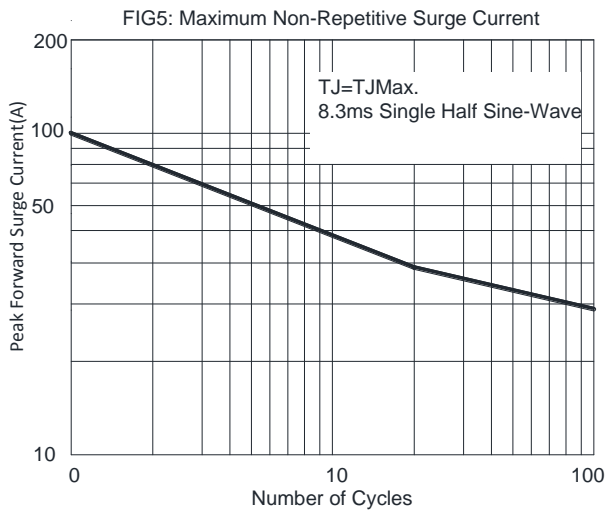
- (4) Pulse test: t<sub>p</sub> ≤ 50ms
- (5) Surge current waveform per Fig. 3 and derated per Fig.2.
- (6) For bi-directional types having V<sub>WM</sub> of 10 V and less, the I<sub>R</sub> limit is doubled
- (7) For the bi-directional SMBJ5.0CA, the maximum V<sub>BR</sub> is 7.25 V

## ■ Characteristics (Typical)

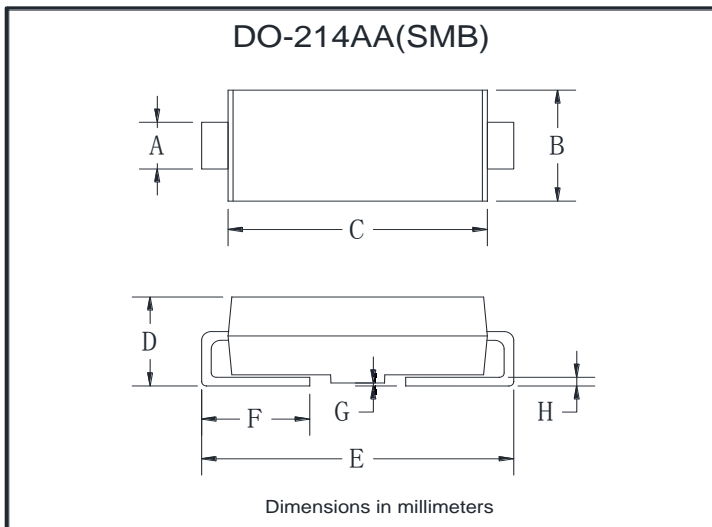




# SMBJ SERIES

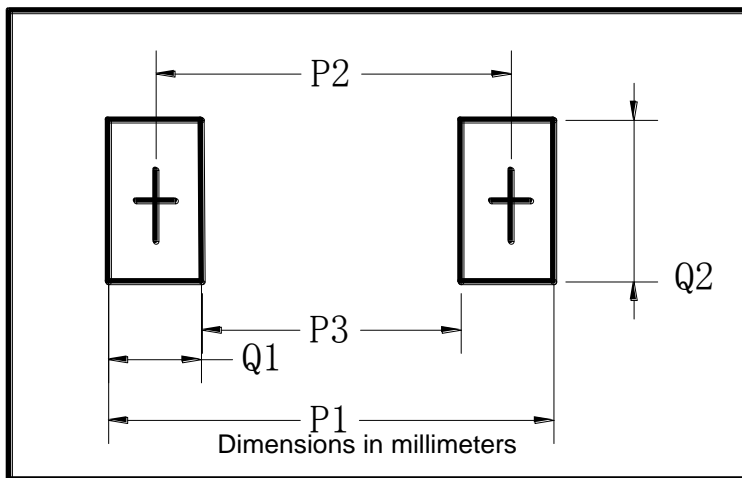


## ■ Outline Dimensions



| DO-214AA(SMB) |      |      |
|---------------|------|------|
| Dim           | Min  | Max  |
| A             | 1.85 | 2.15 |
| B             | 3.30 | 3.94 |
| C             | 4.25 | 4.75 |
| D             | 1.99 | 2.61 |
| E             | 5.21 | 5.59 |
| F             | 0.90 | 1.41 |
| G             | 0.10 | 0.20 |
| H             | 0.15 | 0.31 |

## ■ Suggested pad layout



| DO-214AA(SMB) |             |
|---------------|-------------|
| Dim           | Millimeters |
| P1            | 6.8         |
| P2            | 4.3         |
| P3            | 1.8         |
| Q1            | 2.5         |
| Q2            | 2.3         |



## SMBJ SERIES

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