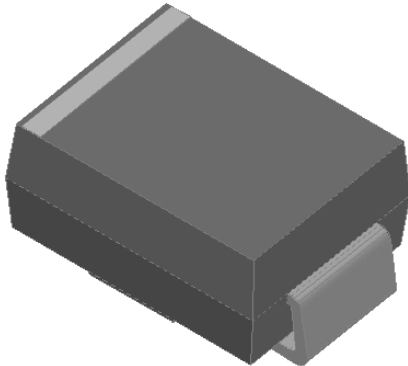


Surface Mount Transient Voltage Suppressors

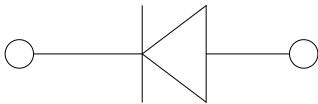


Features

- 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 μ 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_a=25°C Unless otherwise specified)

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

Notes:

- (1) Non-repetitive current pulse, per Fig. 3 and derated above T_A= 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_a=25°C Unless otherwise specified)

| Part Number(Uni) | Part Number(Bi) | Breakdown Voltage V _{BR} @I _T | | | Maximum Reverse Leakage I _R @ V _{WM} ⁽⁶⁾ (μA) | Working Peak Reverse Voltage V _{RWM} (V) | Maximum Reverse Surge Current IPP ⁽⁵⁾ (A) | Maximum Clamping Voltage Vc @ I _{PP} (V) |
|------------------|--------------------------|---|---------|------------------------|--|---|--|---|
| | | Min(V) | Max (V) | IT ⁽⁴⁾ (mA) | | | | |
| SMBJ5.0 | SMBJ5.0C | 6.40 | 7.30 | 10 | 800 | 5.0 | 62.5 | 9.6 |
| SMBJ5.0A | SMBJ5.0CA ⁽⁴⁾ | 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_a=25°C Unless otherwise specified)

| Part Number(Uni) | Part Number(Bi) | Breakdown Voltage V _{BR} @I _T | | | Maximum Reverse Leakage I _R @ V _{WM} (⁽⁶⁾ μA) | Working Peak Reverse Voltage V _{RWM} (V) | Maximum Reverse Surge Current IPP ⁽⁵⁾ (A) Min(V) | Maximum Clamping Voltage V _c @ I _{PP} (V) Max (V) |
|------------------|-----------------|---|---------|------------------------|---|--|---|--|
| | | Min(V) | Max (V) | IT ⁽⁴⁾ (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_a=25°C Unless otherwise specified)

| Part Number(Uni) | Part Number(Bi) | Breakdown Voltage V _{BR} @I _T | | | Maximum Reverse Leakage I _R @ V _{WM} (^⑥ μA) | Working Peak Reverse Voltage V _{RWM} (V) | Maximum Reverse Surge Current IPP ⁽⁵⁾ (A) Min(V) | Maximum Clamping Voltage V _c @ I _{PP} (V) Max (V) |
|------------------|-----------------|---|---------|------------------------|---|--|---|--|
| | | Min(V) | Max (V) | IT ⁽⁴⁾ (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_a=25°C Unless otherwise specified)

| Part Number(Uni) | Part Number(Bi) | Breakdown Voltage V _{BR} @I _T | | | Maximum Reverse Leakage I _R @ V _{WM} ⁽⁶⁾ (μA) | Working Peak Reverse Voltage V _{RWM} (V) | Maximum Reverse Surge Current IPP ⁽⁵⁾ (A) Min(V) | Maximum Clamping Voltage V _c @ I _{PP} (V) Max (V) |
|------------------|-----------------|---|---------|------------------------------------|--|---|---|---|
| | | Min(V) | Max (V) | I _T ⁽⁴⁾ (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_p ≤ 50ms
- (5) Surge current waveform per Fig. 3 and derated per Fig.2.
- (6) For bi-directional types having V_{WM} of 10 V and less, the I_R limit is doubled
- (7) For the bi-directional SMBJ5.0CA, the maximum V_{BR} is 7.25 V

■ Characteristics (Typical)

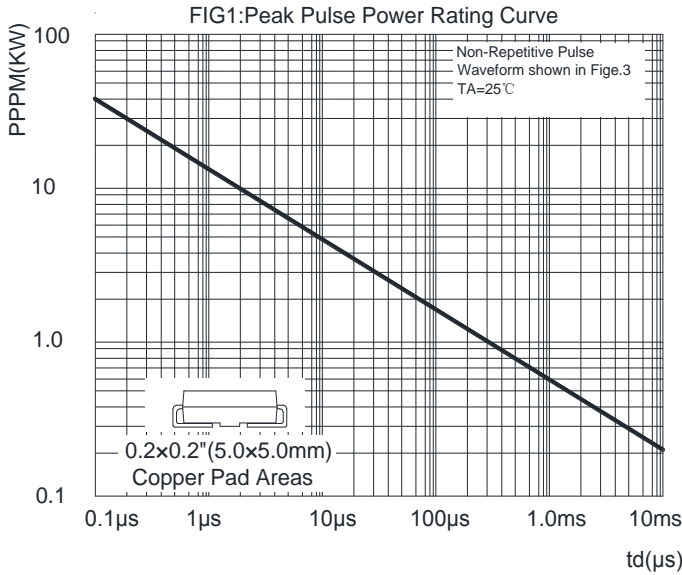
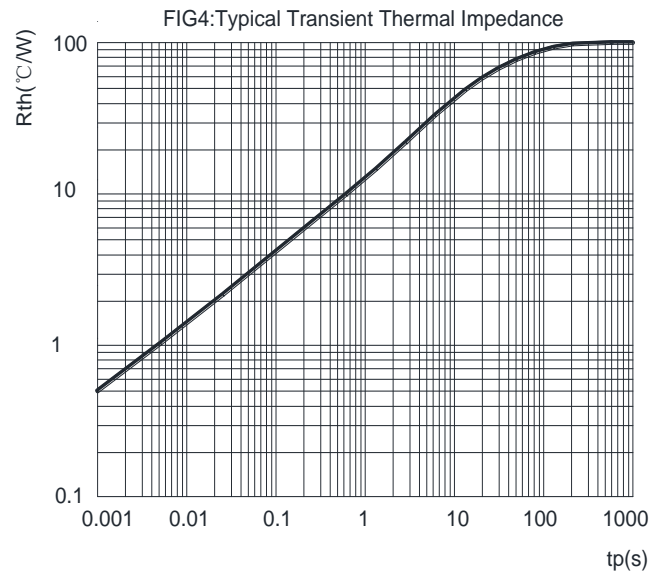
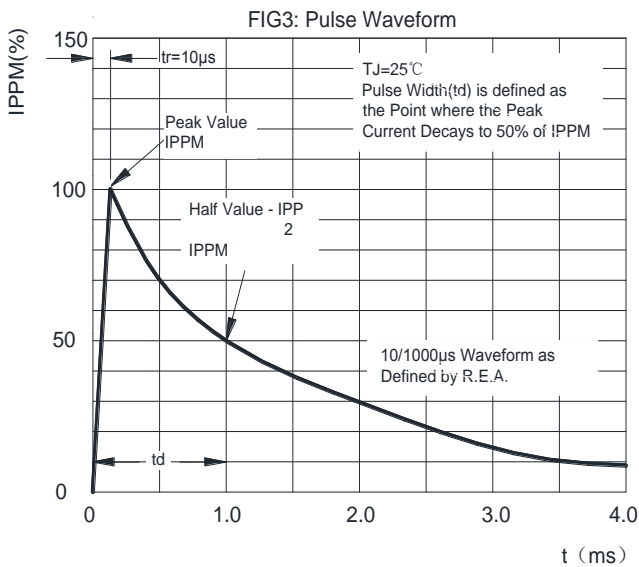
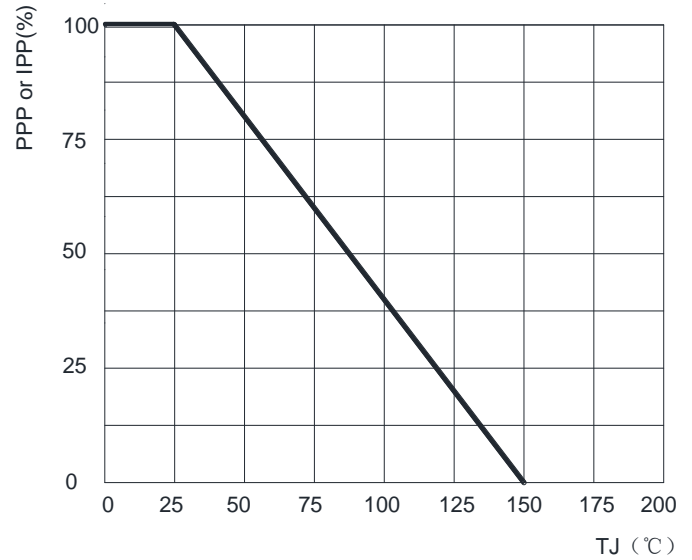
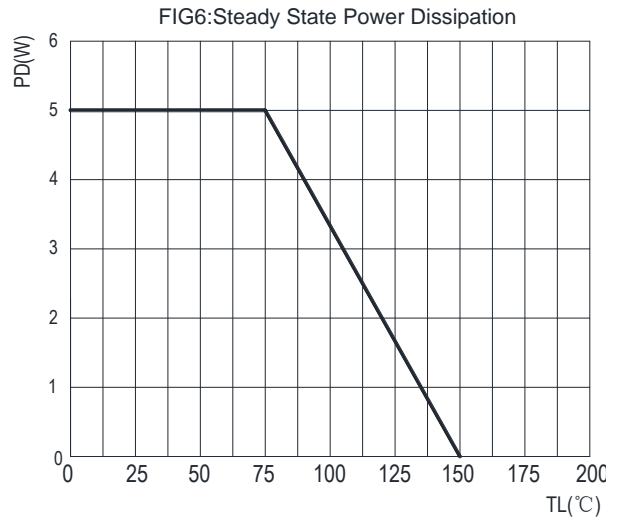
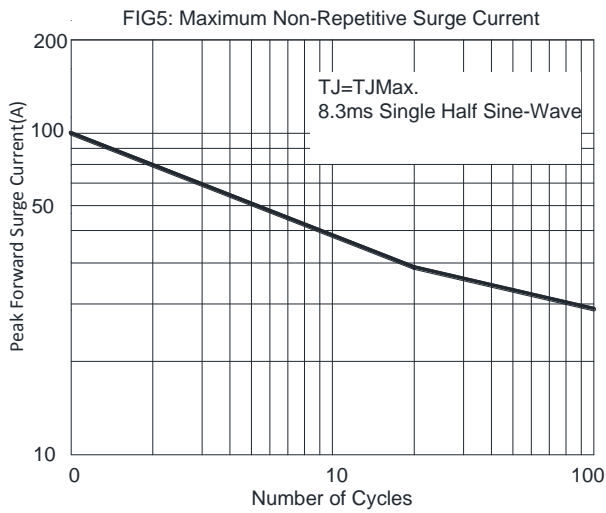


FIG2: Pulse Power or Current vs. Initial Junction Temperature

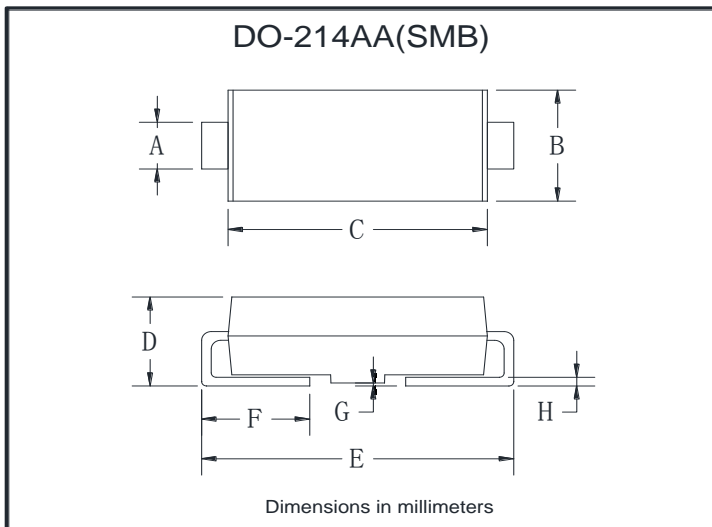




SMBJ SERIES

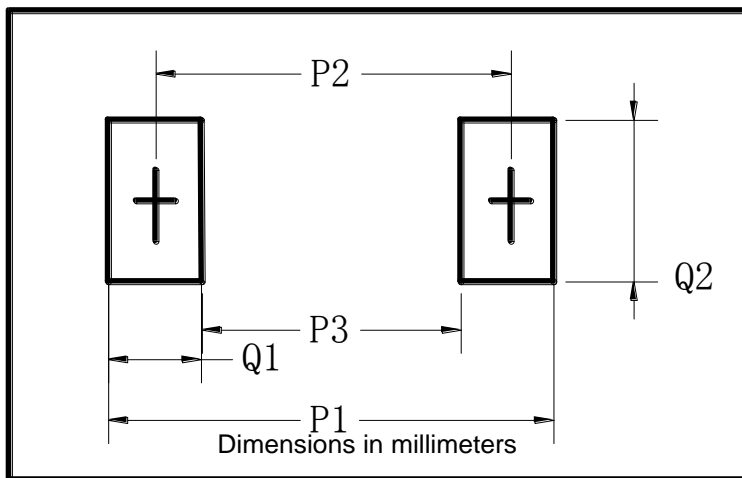


■ Outline Dimensions



| 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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[D5V0M1U2LP3-7](#) [SMAJ400A-TP](#) [AOZ8811DT-03](#) [AOZ8831DI-05](#) [AOZ8831DT-03](#) [SMAJ188CA](#) [3SMC33CA BK](#) [CPDQC3V3C-HF](#)
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[MPLAD30KP43CAE3](#) [SMAJ43A-TP](#) [D26V0H1U2LP16-7](#)