

Surface Mount Transient Voltage Suppressors (TVS)

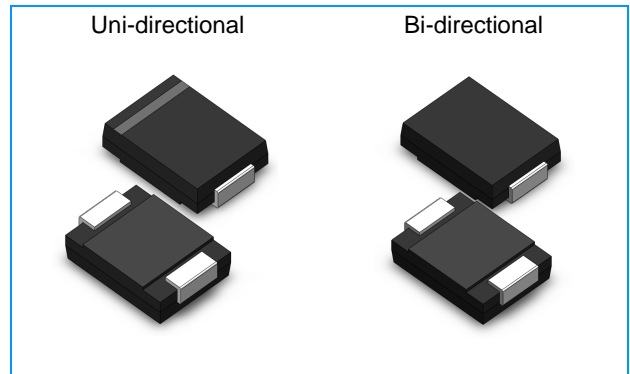
SMDJ Series 5.0 To 440 V 3000W

Description

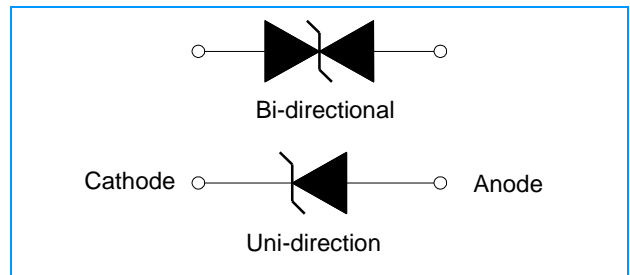
The SMDJ series is designed specifically to protect sensitive electronic equipment from voltage transients induced by lightning and other transient voltage events.

Features

- u For surface mounted applications in order to optimize board space
- u Low leakage
- u Uni and Bidirectional unit
- u Glass passivated junction
- u Low inductance
- u Excellent clamping capability
- u 3000W Peak power capability at 10 × 1000μs waveform Repetition rate (duty cycle):0.01%
- u Fast response time: typically less than 1.0ps from 0 Volts to V_{BR} min
- u Typical I_R less than 5μA above 12V.
- u High Temperature soldering: 260°C/40 seconds at terminals
- u Typical maximum temperature coefficient $\Delta V_{BR} = 0.1\% \times V_{BR}@25^\circ\text{C} \times \Delta T$
- u Plastic package has Underwriters Laboratory Flammability 94V-0
- u Matte tin lead-free Plated
- u Halogen free and RoHS compliant
- u Typical failure mode is short from over-specified voltage or current
- u Whisker test is conducted based on JEDEC JESD201A per its table 4a and 4c
- u IEC-61000-4-2 ESD 15kV(Air), 8kV (Contact)
- u ESD protection of data lines in accordance with IEC 61000-4-2 (IEC801-2)
- u EFT protection of data lines in accordance with IEC 61000-4-4 (IEC801-4)



Functional Diagram



Applications

TVS devices are ideal for the protection of I/O interfaces, V_{CC} bus and other vulnerable circuits used in Telecom, Computer, Industrial and Consumer electronic applications.

Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)

| Parameter | Symbol | Value | Unit |
|--|----------------|----------------|------------------|
| Peak Pulse Power Dissipation with a 10/1000μs waveform (Fig.1)(Note 1), (Note 2) | P_{PPM} | 3000 | Watts |
| Peak Pulse Current with a 10/1000μs waveform.(Note1, Fig.3) | I_{PP} | See Next Table | Amps |
| Power Dissipation on Infinite Heat Sink at $T_L=75^\circ\text{C}$ | $P_{M(AV)}$ | 6.0 | Watt |
| Peak Forward Surge Current, 8.3ms Single Half Sine Wave (Note 3) | I_{FSM} | 300 | Amps |
| Maximum Instantaneous Forward Voltage at 25A for Unidirectional Only (Note 4) | V_F | 3.5/5.0 | Voltage |
| 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 5.0mm x 5.0mm (0.03mm thick) Copper Pads to each terminal.
3. 8.3ms single half sine-wave, or equivalent square wave, Duty cycle = 4 pulses per minutes maximum.
4. $V_F < 3.5\text{V}$ for $V_{BR} < 200\text{V}$ and $V_F < 6.5\text{V}$ for $V_{BR} > 201\text{V}$.

Surface Mount Transient Voltage Suppressors (TVS)

SMDJ Series 5.0 To 440 V 3000W

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

| Part Number | | Marking | | Reverse Stand-Off Voltage V_{RWM} (V) | Breakdown Voltage V_{BR} (V) @ I_T | | Test Current I_T (mA) | Maximum Clamping Voltage V_C @ I_{PP} (V) | Maximum Peak Pulse Current I_{PP} (A) | Maximum Reverse Leakage I_R @ V_{RWM} (μA) |
|-------------|-----------|---------|-----|---|--|-------|-------------------------|---|---|---|
| Uni | Bi | Uni | Bi | | MIN | MAX | | | | |
| SMDJ5.0 | SMDJ5.0C | RDD | DDD | 5.0 | 6.40 | 7.30 | 10 | 9.6 | 312.50 | 1000 |
| SMDJ5.0A | SMDJ5.0CA | RDE | DDE | 5.0 | 6.40 | 7.00 | 10 | 9.2 | 326.09 | 1000 |
| SMDJ6.0 | SMDJ6.0C | RDF | DDF | 6.0 | 6.67 | 8.15 | 10 | 11.4 | 263.16 | 1000 |
| SMDJ6.0A | SMDJ6.0CA | RDG | DDG | 6.0 | 6.67 | 7.37 | 10 | 10.3 | 291.26 | 1000 |
| SMDJ6.5 | SMDJ6.5C | RDH | DDH | 6.5 | 7.22 | 8.82 | 10 | 12.3 | 243.90 | 500 |
| SMDJ6.5A | SMDJ6.5CA | RDK | DDK | 6.5 | 7.22 | 7.98 | 10 | 11.2 | 267.86 | 500 |
| SMDJ7.0 | SMDJ7.0C | RDL | DDL | 7.0 | 7.78 | 9.51 | 10 | 13.3 | 225.56 | 200 |
| SMDJ7.0A | SMDJ7.0CA | PDM | DDM | 7.0 | 7.78 | 8.60 | 10 | 12.0 | 250.00 | 200 |
| SMDJ7.5 | SMDJ7.5C | PDN | DDN | 7.5 | 8.33 | 10.20 | 1 | 14.3 | 209.79 | 100 |
| SMDJ7.5A | SMDJ7.5CA | PDP | DDP | 7.5 | 8.33 | 9.21 | 1 | 12.9 | 232.56 | 100 |
| SMDJ8.0 | SMDJ8.0C | PDQ | DDQ | 8.0 | 8.89 | 10.90 | 1 | 15.0 | 200.00 | 50 |
| SMDJ8.0A | SMDJ8.0CA | PDR | DDR | 8.0 | 8.89 | 9.83 | 1 | 13.6 | 220.59 | 50 |
| SMDJ8.5 | SMDJ8.5C | PDS | DDS | 8.5 | 9.44 | 11.50 | 1 | 15.9 | 188.68 | 25 |
| SMDJ8.5A | SMDJ8.5CA | PDT | DDT | 8.5 | 9.44 | 10.40 | 1 | 14.4 | 208.33 | 25 |
| SMDJ9.0 | SMDJ9.0C | PDU | DDU | 9.0 | 10.00 | 12.20 | 1 | 16.9 | 177.51 | 10 |
| SMDJ9.0A | SMDJ9.0CA | PDV | DDV | 9.0 | 10.00 | 11.10 | 1 | 15.4 | 194.81 | 10 |
| SMDJ10 | SMDJ10C | PDW | DDW | 10.0 | 11.10 | 13.60 | 1 | 18.8 | 159.57 | 5 |
| SMDJ10A | SMDJ10CA | PDX | DDX | 10.0 | 11.10 | 12.30 | 1 | 17.0 | 176.47 | 5 |
| SMDJ11 | SMDJ11C | PDY | DDY | 11.0 | 12.20 | 14.90 | 1 | 20.1 | 149.25 | 5 |
| SMDJ11A | SMDJ11CA | PDZ | DDZ | 11.0 | 12.20 | 13.50 | 1 | 18.2 | 164.84 | 5 |
| SMDJ12 | SMDJ12C | PED | DED | 12.0 | 13.30 | 16.30 | 1 | 22.0 | 136.36 | 5 |
| SMDJ12A | SMDJ12CA | PEE | DEE | 12.0 | 13.30 | 14.70 | 1 | 19.9 | 150.75 | 5 |
| SMDJ13 | SMDJ13C | PEF | DEF | 13.0 | 14.40 | 17.60 | 1 | 23.8 | 126.05 | 5 |
| SMDJ13A | SMDJ13CA | PEG | DEG | 13.0 | 14.40 | 15.90 | 1 | 21.5 | 139.53 | 5 |
| SMDJ14 | SMDJ14C | PEH | DEH | 14.0 | 15.60 | 19.10 | 1 | 25.8 | 116.28 | 5 |
| SMDJ14A | SMDJ14CA | PEK | DEK | 14.0 | 15.60 | 17.20 | 1 | 23.2 | 129.31 | 5 |
| SMDJ15 | SMDJ15C | PEL | DEL | 15.0 | 16.70 | 20.40 | 1 | 26.9 | 111.52 | 5 |
| SMDJ15A | SMDJ15CA | PEM | DEM | 15.0 | 16.70 | 18.50 | 1 | 24.4 | 122.95 | 5 |
| SMDJ16 | SMDJ16C | PEN | DEN | 16.0 | 17.80 | 21.80 | 1 | 28.8 | 104.17 | 5 |
| SMDJ16A | SMDJ16CA | PEP | DEP | 16.0 | 17.80 | 19.70 | 1 | 26.0 | 115.38 | 5 |
| SMDJ17 | SMDJ17C | PEQ | DEQ | 17.0 | 18.90 | 23.10 | 1 | 30.5 | 98.36 | 5 |
| SMDJ17A | SMDJ17CA | PER | DER | 17.0 | 18.90 | 20.90 | 1 | 27.6 | 108.70 | 5 |
| SMDJ18 | SMDJ18C | PES | DES | 18.0 | 20.00 | 24.40 | 1 | 32.2 | 93.17 | 5 |
| SMDJ18A | SMDJ18CA | PET | DET | 18.0 | 20.00 | 22.10 | 1 | 29.2 | 102.74 | 5 |
| SMDJ19 | SMDJ19C | PEA | DEA | 19.0 | 21.13 | 25.76 | 1 | 34.0 | 88.21 | 5 |
| SMDJ19A | SMDJ19CA | PEB | DEB | 19.0 | 21.10 | 23.30 | 1 | 30.8 | 97.47 | 5 |
| SMDJ20 | SMDJ20C | PEU | DEU | 20.0 | 22.20 | 27.10 | 1 | 35.8 | 83.80 | 5 |
| SMDJ20A | SMDJ20CA | PEV | DEV | 20.0 | 22.20 | 24.50 | 1 | 32.4 | 92.59 | 5 |
| SMDJ22 | SMDJ22C | PEW | DEW | 22.0 | 24.40 | 29.80 | 1 | 39.4 | 76.14 | 5 |
| SMDJ22A | SMDJ22CA | PEX | DEX | 22.0 | 24.40 | 26.90 | 1 | 35.5 | 84.51 | 5 |
| SMDJ24 | SMDJ24C | PEY | DEY | 24.0 | 26.70 | 32.60 | 1 | 43.0 | 69.77 | 5 |
| SMDJ24A | SMDJ24CA | PEZ | DEZ | 24.0 | 26.70 | 29.50 | 1 | 38.9 | 77.12 | 5 |
| SMDJ26 | SMDJ26C | PFD | DFD | 26.0 | 28.90 | 35.30 | 1 | 46.6 | 64.38 | 5 |
| SMDJ26A | SMDJ26CA | PFE | DFE | 26.0 | 28.90 | 31.90 | 1 | 42.1 | 71.26 | 5 |
| SMDJ28 | SMDJ28C | PFF | DFE | 28.0 | 31.10 | 38.00 | 1 | 50.0 | 60.00 | 5 |
| SMDJ28A | SMDJ28CA | PFG | DFG | 28.0 | 31.10 | 34.40 | 1 | 45.4 | 66.08 | 5 |
| SMDJ30 | SMDJ30C | PFH | DFH | 30.0 | 33.30 | 40.70 | 1 | 53.5 | 56.07 | 5 |
| SMDJ30A | SMDJ30CA | PFK | DFK | 30.0 | 33.30 | 36.80 | 1 | 48.4 | 61.98 | 5 |
| SMDJ33 | SMDJ33C | PFL | DFL | 33.0 | 36.70 | 44.90 | 1 | 59.0 | 50.85 | 5 |
| SMDJ33A | SMDJ33CA | PFM | DFM | 33.0 | 36.70 | 40.60 | 1 | 53.3 | 56.29 | 5 |
| SMDJ36 | SMDJ36C | PFN | DFN | 36.0 | 40.00 | 48.90 | 1 | 64.3 | 46.66 | 5 |
| SMDJ36A | SMDJ36CA | PFP | DFP | 36.0 | 40.00 | 44.20 | 1 | 58.1 | 51.64 | 5 |
| SMDJ40 | SMDJ40C | PFQ | DFQ | 40.0 | 44.40 | 54.30 | 1 | 71.4 | 42.02 | 5 |
| SMDJ40A | SMDJ40CA | PFR | DFR | 40.0 | 44.40 | 49.10 | 1 | 64.5 | 46.51 | 5 |
| SMDJ43 | SMDJ43C | PFS | DFS | 43.0 | 47.80 | 58.40 | 1 | 76.7 | 39.11 | 5 |
| SMDJ43A | SMDJ43CA | PFT | DFT | 43.0 | 47.80 | 52.80 | 1 | 69.4 | 43.23 | 5 |

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Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted) (Continue)

| Part Number | | Marking | | Reverse Stand-Off Voltage V_{RWM} (V) | Breakdown Voltage V_{BR} (V) @ I_T | | Test Current I_T (mA) | Maximum Clamping Voltage V_C @ I_{PP} (V) | Maximum Peak Pulse Current I_{PP} (A) | Maximum Reverse Leakage I_R @ V_{RWM} (μA) |
|-------------|-----------|---------|-----|---|--|--------|-------------------------|---|---|---|
| Uni | Bi | Uni | Bi | | MIN | MAX | | | | |
| SMDJ45 | SMDJ45C | PFU | DFU | 45.0 | 50.00 | 61.10 | 1 | 80.3 | 37.36 | 5 |
| SMDJ45A | SMDJ45CA | PFV | DFV | 45.0 | 50.00 | 55.30 | 1 | 72.7 | 41.27 | 5 |
| SMDJ48 | SMDJ48C | PFW | DFW | 48.0 | 53.30 | 65.10 | 1 | 85.5 | 35.09 | 5 |
| SMDJ48A | SMDJ48CA | PFX | DFX | 48.0 | 53.30 | 58.90 | 1 | 77.4 | 38.76 | 5 |
| SMDJ51 | SMDJ51C | PFY | DFY | 51.0 | 56.70 | 69.30 | 1 | 91.1 | 32.93 | 5 |
| SMDJ51A | SMDJ51CA | PFZ | DFZ | 51.0 | 56.70 | 62.70 | 1 | 82.4 | 36.41 | 5 |
| SMDJ54 | SMDJ54C | RGD | DGD | 54.0 | 60.00 | 73.30 | 1 | 96.3 | 31.15 | 5 |
| SMDJ54A | SMDJ54CA | RGE | DGE | 54.0 | 60.00 | 66.30 | 1 | 87.1 | 34.44 | 5 |
| SMDJ58 | SMDJ58C | RGF | DGF | 58.0 | 64.40 | 78.70 | 1 | 103.0 | 29.13 | 5 |
| SMDJ58A | SMDJ58CA | PGG | DGG | 58.0 | 64.40 | 71.20 | 1 | 93.6 | 32.05 | 5 |
| SMDJ60 | SMDJ60C | RGH | DGH | 60.0 | 66.70 | 81.50 | 1 | 107.0 | 28.04 | 5 |
| SMDJ60A | SMDJ60CA | PGK | DGK | 60.0 | 66.70 | 73.70 | 1 | 96.8 | 30.99 | 5 |
| SMDJ64 | SMDJ64C | PGL | DGL | 64.0 | 71.10 | 86.90 | 1 | 114.0 | 26.32 | 5 |
| SMDJ64A | SMDJ64CA | PGM | DGM | 64.0 | 71.10 | 78.60 | 1 | 103.0 | 29.13 | 5 |
| SMDJ70 | SMDJ70C | PGN | DGN | 70.0 | 77.80 | 95.10 | 1 | 125.0 | 24.00 | 5 |
| SMDJ70A | SMDJ70CA | PGP | DGP | 70.0 | 77.80 | 86.00 | 1 | 113.0 | 26.55 | 5 |
| SMDJ75 | SMDJ75C | PGQ | DGQ | 75.0 | 83.30 | 102.00 | 1 | 134.0 | 22.39 | 5 |
| SMDJ75A | SMDJ75CA | PGR | DGR | 75.0 | 83.30 | 92.10 | 1 | 121.0 | 24.79 | 5 |
| SMDJ78 | SMDJ78C | PGS | DGS | 78.0 | 86.70 | 106.00 | 1 | 139.0 | 21.58 | 5 |
| SMDJ78A | SMDJ78CA | PGT | DGT | 78.0 | 86.70 | 95.80 | 1 | 126.0 | 23.81 | 5 |
| SMDJ80 | SMDJ80C | PGA | DGA | 80.0 | 88.96 | 108.80 | 1 | 143.2 | 20.95 | 5 |
| SMDJ80A | SMDJ80CA | PGB | DGB | 80.0 | 88.80 | 97.60 | 1 | 129.6 | 23.15 | 5 |
| SMDJ85 | SMDJ85C | PGU | DGU | 85.0 | 94.40 | 115.00 | 1 | 151.0 | 19.87 | 5 |
| SMDJ85A | SMDJ85CA | PGV | DGV | 85.0 | 94.40 | 104.00 | 1 | 137.0 | 21.90 | 5 |
| SMDJ90 | SMDJ90C | PGW | DGW | 90.0 | 100.00 | 122.00 | 1 | 160.0 | 18.75 | 5 |
| SMDJ90A | SMDJ90CA | PGX | DGX | 90.0 | 100.00 | 111.00 | 1 | 146.0 | 20.55 | 5 |
| SMDJ100 | SMDJ100C | PGY | DGY | 100.0 | 111.00 | 136.00 | 1 | 179.0 | 16.76 | 5 |
| SMDJ100A | SMDJ100CA | PGZ | DGZ | 100.0 | 111.00 | 123.00 | 1 | 162.0 | 18.52 | 5 |
| SMDJ110 | SMDJ110C | PHD | DHD | 110.0 | 122.00 | 149.00 | 1 | 196.0 | 15.31 | 5 |
| SMDJ110A | SMDJ110CA | PHE | DHE | 110.0 | 122.00 | 135.00 | 1 | 177.0 | 16.95 | 5 |
| SMDJ120 | SMDJ120C | PHF | DHF | 120.0 | 133.00 | 163.00 | 1 | 214.0 | 14.02 | 5 |
| SMDJ120A | SMDJ120CA | PHG | DHG | 120.0 | 133.00 | 147.00 | 1 | 193.0 | 15.54 | 5 |
| SMDJ130 | SMDJ130C | PHH | DHH | 130.0 | 144.00 | 176.00 | 1 | 231.0 | 12.99 | 5 |
| SMDJ130A | SMDJ130CA | PHK | DHK | 130.0 | 144.00 | 159.00 | 1 | 209.0 | 14.35 | 5 |
| SMDJ140 | SMDJ140C | PHA | DHA | 140.0 | 155.68 | 190.40 | 1 | 250.6 | 11.97 | 5 |
| SMDJ140A | SMDJ140CA | PHB | DHB | 140.0 | 155.00 | 171.00 | 1 | 226.8 | 13.23 | 5 |
| SMDJ150 | SMDJ150C | PHL | DHL | 150.0 | 167.00 | 204.00 | 1 | 268.0 | 11.19 | 5 |
| SMDJ150A | SMDJ150CA | PHM | DHM | 150.0 | 167.00 | 185.00 | 1 | 243.0 | 12.35 | 5 |
| SMDJ160 | SMDJ160C | PHN | DHN | 160.0 | 178.00 | 218.00 | 1 | 287.0 | 10.45 | 5 |
| SMDJ160A | SMDJ160CA | PHP | DHP | 160.0 | 178.00 | 197.00 | 1 | 259.0 | 11.58 | 5 |
| SMDJ170 | SMDJ170C | PHQ | DHQ | 170.0 | 189.00 | 231.00 | 1 | 304.0 | 9.87 | 5 |
| SMDJ170A | SMDJ170CA | PHR | DHR | 170.0 | 189.00 | 209.00 | 1 | 275.0 | 10.91 | 5 |
| SMDJ180 | SMDJ180C | PHS | DHS | 180.0 | 201.00 | 244.80 | 1 | 322.2 | 9.31 | 5 |
| SMDJ180A | SMDJ180CA | PHT | DHT | 180.0 | 201.00 | 220.00 | 1 | 291.6 | 10.29 | 5 |
| SMDJ190 | SMDJ190C | PHU | DHU | 190.0 | 211.21 | 258.40 | 1 | 340.1 | 8.82 | 5 |
| SMDJ190A | SMDJ190CA | PHV | DHV | 190.0 | 211.00 | 232.00 | 1 | 307.8 | 9.75 | 5 |
| SMDJ200A | SMDJ200CA | PHW | DHW | 200.0 | 224.00 | 247.00 | 1 | 324.0 | 9.26 | 5 |
| SMDJ220A | SMDJ220CA | PHX | DHX | 220.0 | 246.00 | 272.00 | 1 | 356.0 | 8.43 | 5 |
| SMDJ250A | SMDJ250CA | PHZ | DHZ | 250.0 | 279.00 | 309.00 | 1 | 405.0 | 7.41 | 5 |
| SMDJ300A | SMDJ300CA | PJE | DJE | 300.0 | 335.00 | 371.00 | 1 | 486.0 | 6.17 | 5 |
| SMDJ350A | SMDJ350CA | PJG | DJG | 350.0 | 391.00 | 432.00 | 1 | 567.0 | 5.29 | 5 |
| SMDJ400A | SMDJ400CA | PJK | DJK | 400.0 | 447.00 | 494.00 | 1 | 648.0 | 4.63 | 5 |
| SMDJ440A | SMDJ440CA | PJM | DJM | 440.0 | 492.00 | 543.00 | 1 | 713.0 | 4.21 | 5 |

Note:

1. Suffix 'A' denotes 5% tolerance device. Without 'A' denotes 10% tolerance device
2. Add suffix 'C' or 'CA' after part number to specify Bi-directional devices
3. For Bi-Directional devices having V_R of 10 volts and under, the I_R limit is double

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Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Figure 1 - Peak Pulse Power Rating Curve

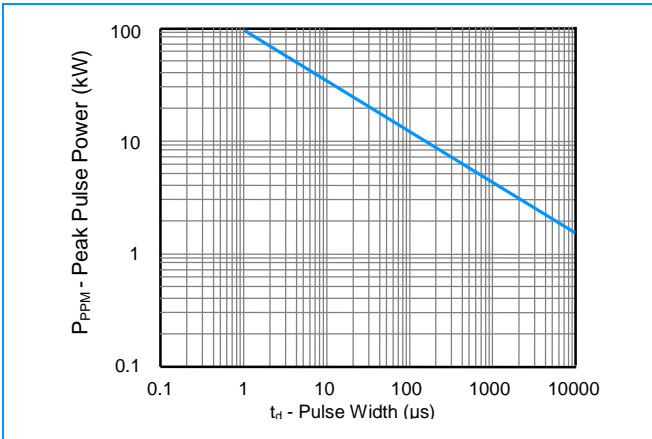


Figure 2 - Pulse Derating Curve

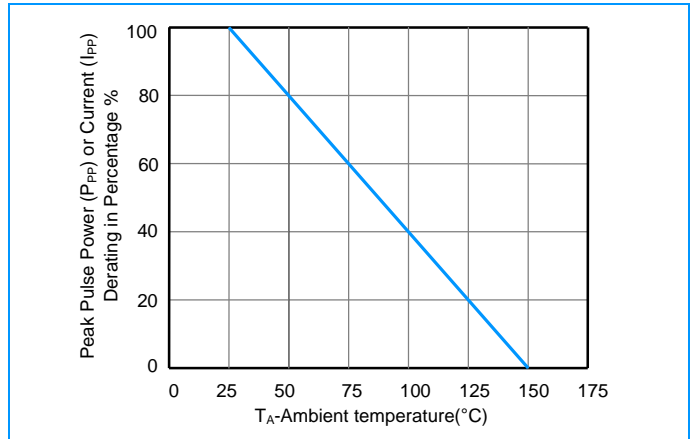


Figure 3 - Pulse Waveform

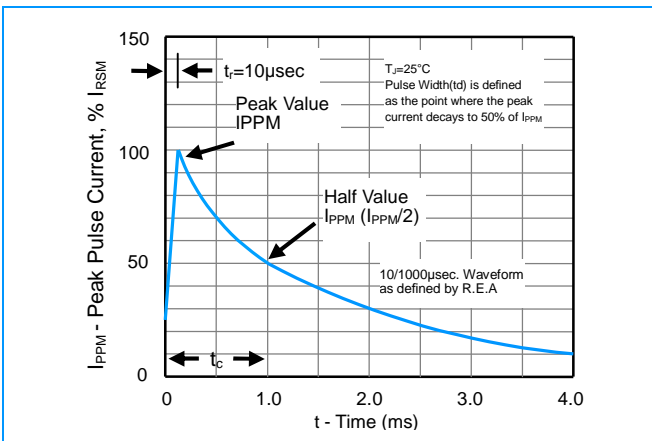


Figure 4 - Typical Junction Capacitance

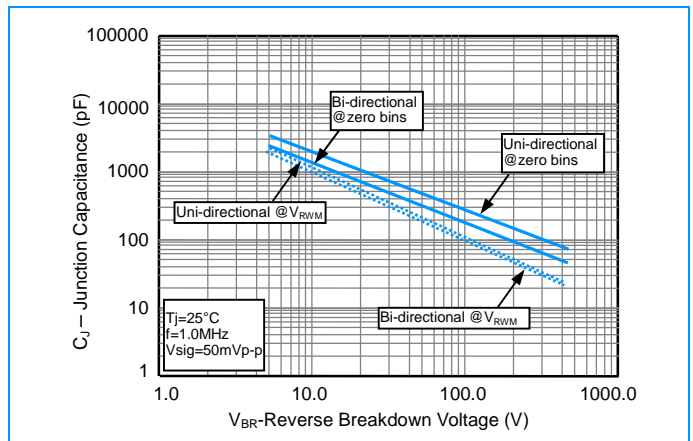


Figure 5 - Steady State Power Derating Curve

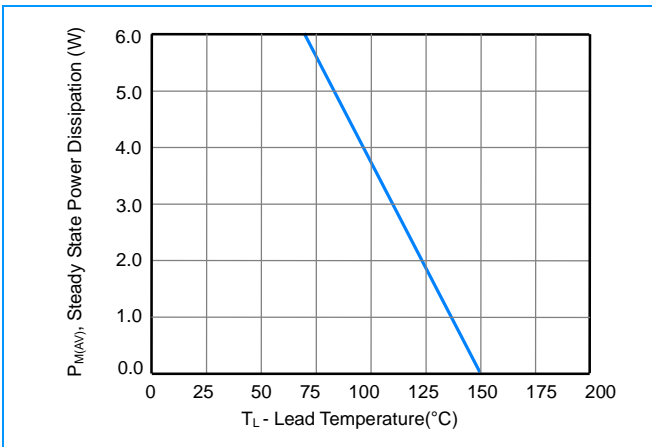
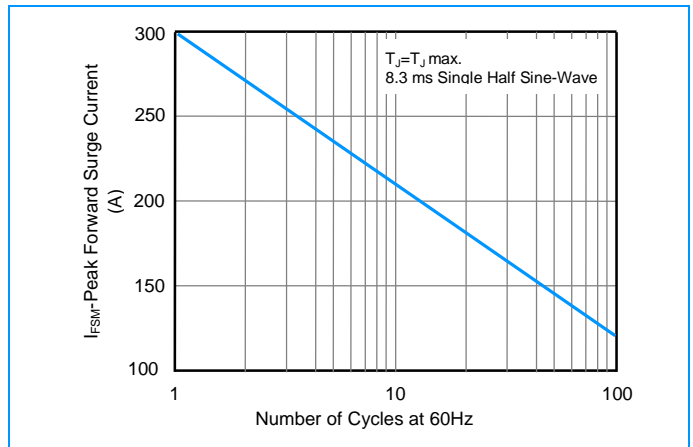


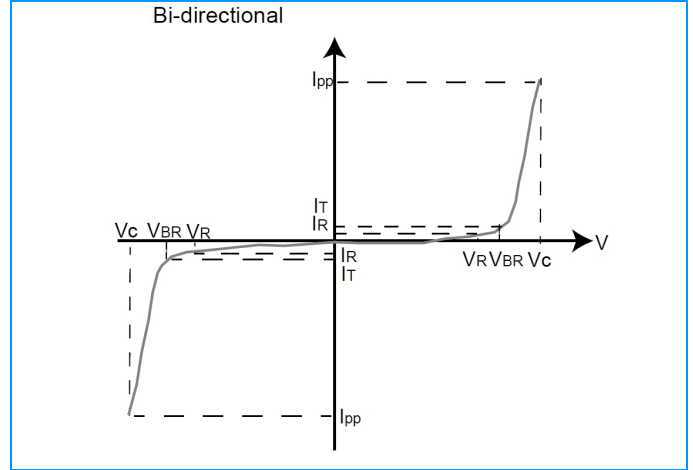
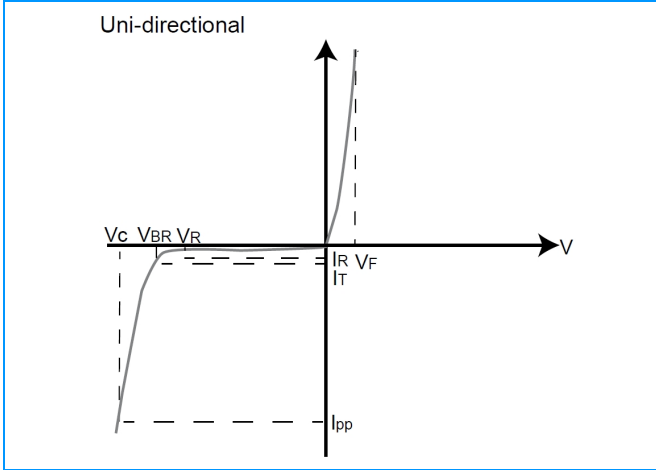
Figure 6 - Maximum Non-Repetitive Surge Current



Surface Mount Transient Voltage Suppressors (TVS)

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I-V Curve Characteristics



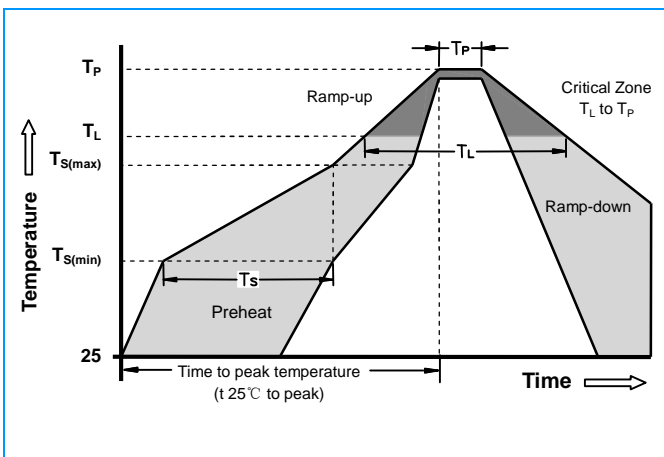
Physical Specifications

| | |
|-----------------|--|
| Weight | 0.007 ounce, 0.21 gram |
| Case | JEDEC DO-214AB Molded Plastic over glass passivated junction |
| Polarity | Color band denotes cathode except Bipolar |
| Terminal | Matte Tin-plated leads, Solderable per JESD22-B102D |

Environmental Specifications

| | |
|---------------------------|-------------|
| Temperature Cycle | JESD22-A104 |
| Pressure Cooker | JESD22-A102 |
| High Temp. Storage | JESD22-A103 |
| HTRB | JESD22-A108 |
| Thermal Shock | JESD22-A106 |

Soldering Parameters

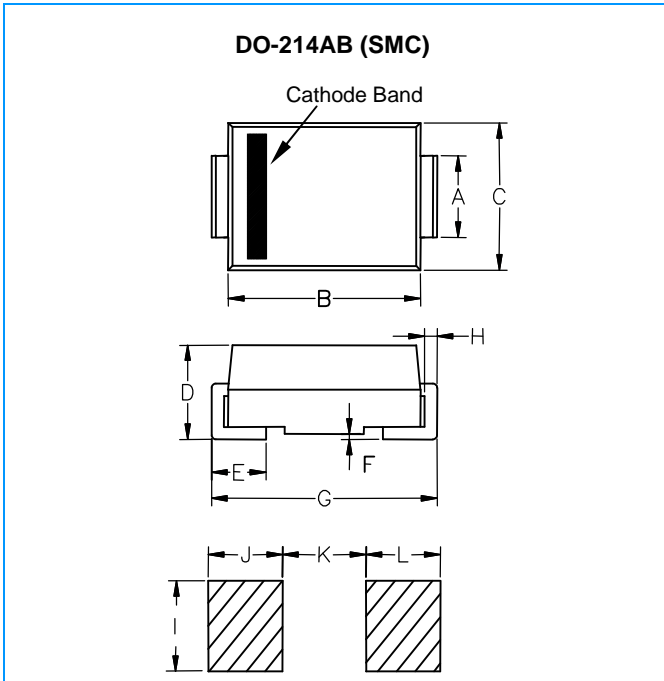


| | | |
|---|------------------------------------|--------------------|
| Reflow Condition | | Lead-free assembly |
| Pre Heat | - Temperature Min ($T_{s(min)}$) | 150°C |
| | - Temperature Max ($T_{s(max)}$) | 200°C |
| | - Time (min to max) (t_s) | 60 - 180 Seconds |
| Average ramp up rate (Liquidus Temp T_L) to peak | | 3°C/second max |
| $T_{s(max)}$ to T_L - Ramp-up Rate | | 3°C/second max |
| Reflow | - Temperature (T_L) (Liquidus) | 217°C |
| | - Time (min to max) (t_s) | 60 - 150 Seconds |
| Peak Temperature (T_P) | | 260 +0/-5°C |
| Time within 5°C of actual peak Temperature (t_p) | | 20 - 40 Seconds |
| Ramp-down Rate | | 6°C/second max |
| Time 25°C to peak Temperature (T_P) | | 8 minutes Max |
| Do not exceed | | 280°C |

Surface Mount Transient Voltage Suppressors (TVS)

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Dimensions



| Dimensions | Inches | | Millimeters | |
|------------|--------|-------|-------------|-------|
| | Min | Max | Min | Max |
| A | 0.114 | 0.126 | 2.86 | 3.160 |
| B | 0.260 | 0.280 | 6.520 | 7.020 |
| C | 0.220 | 0.245 | 5.520 | 6.150 |
| D | 0.079 | 0.103 | 1.980 | 2.590 |
| E | 0.030 | 0.060 | 0.750 | 1.510 |
| F | - | 0.008 | - | 0.203 |
| G | 0.305 | 0.320 | 7.640 | 8.020 |
| H | 0.006 | 0.012 | 0.152 | 0.305 |
| I | 0.129 | - | 3.300 | - |
| J | 0.094 | - | 2.400 | - |
| K | - | 0.165 | - | 4.200 |
| L | 0.094 | - | 2.400 | - |

Part Numbering

