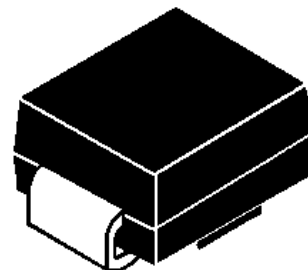


1500W Surface Mount Transient Voltage Suppressors



Features

- ⌘ Working peak reverse voltage range – 5.0V to 440V.
- ⌘ Peak power dissipation 1500W @10 x 1000 us Pulse
- ⌘ Low profile package.
- ⌘ Excellent clamping capability.
- ⌘ Glass passivated junction.
- ⌘ Fast response time: typically less than 1 ns for Uni-direction.
Less than 5 ns for Bi-direction, from 0 Volts to BV min
- ⌘ Typical IR less than 1uA above 10V.
- ⌘ Plastic material has UL flammability classification 94V-O
- ⌘ RoHS compliant in lead-free versions

Mechanical Characteristics

CASE: Void-free, JEDEC SMC Molded Plastic over glass passivated junction..

Mounting Position: Any

Polarity: by cathode band denotes uni-directional device, none cathode band denotes bi-directional device.

Terminal: Solder plated, solderable per MIL-STD-750, Method 2026

Maximum Ratings And Characteristics @ 25°C Ambient Temperature (unless otherwise noted)

| Parameter | Symbol | Value | Units |
|--|------------------|-------------|-------|
| Peak Pulse Power Dissipation on 10/1000 us Waveform (Note 1, 2, FIG.1) | P _{PPM} | Min 1500 | W |
| Peak Pulse Current of on 10/1000us Waveform (Note 1, FIG.3) | I _{PPM} | See Table 1 | Amps |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load, (JEDEC Method) (Note 2. 3) | I _{FSM} | 200 | Amps |
| Operating Junction Temperature Range | T _J | -55 to 150 | °C |
| Storage Temperature Range | T _{STG} | -55 to 150 | °C |
| | | | |

Notes:

1. Non-repetitive current pulse, per Fig.3 and derated above T_A=25°C per Fig.2.
2. Mounted on 5.0mm² (0.03mm thick) Copper Pads to each terminal.
3. 8.3 ms single half sine-wave, or equivalent square wave, Duty cycle=4 pluses per minute maximum.

Electrical Specification @ Tamb 25°C

| Type Number | | Marking | | Reverse Stand-Off Voltage | Breakdown Voltage Min. @I _T | Breakdown Voltage Max. @ I _T | Test Current | Maximum Clamping Voltage @I _{PP} | Peak Pulse Current | Reverse Leakage @V _{RMW} |
|-------------|------------|---------|------|---------------------------|--|---|---------------------|---|---------------------|-----------------------------------|
| (Uni) | (Bi) | (Uni) | (Bi) | V _{RMW} (V) | V _{BR MIN} (V) | V _{BR MAX} (V) | I _T (mA) | V _C (V) | I _{PP} (A) | I _R (μ A) |
| KSMCJ5.0 | KSMCJ5.0C | GDD | BDD | 5.0 | 6.40 | 7.55 | 10.0 | 9.6 | 156.3 | 800.0 |
| KSMCJ5.0A | KSMCJ5.0CA | GDE | BDE | 5.0 | 6.40 | 7.25 | 10.0 | 9.2 | 163.0 | 800.0 |
| KSMCJ6.0 | KSMCJ6.0C | GDF | BDF | 6.0 | 6.67 | 8.45 | 10.0 | 11.4 | 131.6 | 800.0 |
| KSMCJ6.0A | KSMCJ6.0CA | GDG | BDG | 6.0 | 6.67 | 7.67 | 10.0 | 10.3 | 145.6 | 800.0 |
| KSMCJ6.5 | KSMCJ6.5C | GDH | BDH | 6.5 | 7.22 | 9.14 | 10.0 | 12.3 | 122.0 | 500.0 |
| KSMCJ6.5A | KSMCJ6.5CA | GDK | BDK | 6.5 | 7.22 | 8.30 | 10.0 | 11.2 | 133.9 | 500.0 |
| KSMCJ7.0 | KSMCJ7.0C | GDL | BDL | 7.0 | 7.78 | 9.86 | 10.0 | 13.3 | 112.8 | 200.0 |
| KSMCJ7.0A | KSMCJ7.0CA | GDM | BDM | 7.0 | 7.78 | 8.95 | 10.0 | 12.0 | 125.0 | 200.0 |
| KSMCJ7.5 | KSMCJ7.5C | GDN | BDN | 7.5 | 8.33 | 10.67 | 1.0 | 14.3 | 104.9 | 100.0 |
| KSMCJ7.5A | KSMCJ7.5CA | GDP | BDP | 7.5 | 8.33 | 9.58 | 1.0 | 12.9 | 116.3 | 100.0 |
| KSMCJ8.0 | KSMCJ8.0C | GDQ | BDQ | 8.0 | 8.89 | 11.3 | 1.0 | 15.0 | 100.0 | 50.0 |
| KSMCJ8.0A | KSMCJ8.0CA | GDR | BDR | 8.0 | 8.89 | 10.23 | 1.0 | 13.6 | 110.3 | 50.0 |
| KSMCJ8.5 | KSMCJ8.5C | GDS | BDS | 8.5 | 9.44 | 11.92 | 1.0 | 15.9 | 94.3 | 20.0 |
| KSMCJ8.5A | KSMCJ8.5CA | GDT | BDT | 8.5 | 9.44 | 10.82 | 1.0 | 14.4 | 104.2 | 20.0 |
| KSMCJ9.0 | KSMCJ9.0C | GDU | BDU | 9.0 | 10.0 | 12.6 | 1.0 | 16.9 | 88.8 | 10.0 |
| KSMCJ9.0A | KSMCJ9.0CA | GDV | BDV | 9.0 | 10.0 | 11.5 | 1.0 | 15.4 | 97.4 | 10.0 |
| KSMCJ10 | KSMCJ10C | GDW | BDW | 10 | 11.1 | 14.1 | 1.0 | 18.8 | 79.8 | 5.0 |
| KSMCJ10A | KSMCJ10CA | GDX | BDX | 10 | 11.1 | 12.8 | 1.0 | 17.0 | 88.2 | 5.0 |
| KSMCJ11 | KSMCJ11C | GDY | BDY | 11 | 12.2 | 15.4 | 1.0 | 20.1 | 74.6 | 5.0 |
| KSMCJ11A | KSMCJ11CA | GDZ | BDZ | 11 | 12.2 | 14.0 | 1.0 | 18.2 | 82.4 | 5.0 |
| KSMCJ12 | KSMCJ12C | GED | BED | 12 | 13.3 | 16.9 | 1.0 | 22.0 | 68.2 | 5.0 |
| KSMCJ12A | KSMCJ12CA | GEE | BEE | 12 | 13.3 | 15.3 | 1.0 | 19.9 | 75.4 | 5.0 |
| KSMCJ13 | KSMCJ13C | GEF | BEF | 13 | 14.4 | 18.2 | 1.0 | 23.8 | 63.0 | 5.0 |
| KSMCJ13A | KSMCJ13CA | GEG | BEG | 13 | 14.4 | 16.5 | 1.0 | 21.5 | 69.8 | 5.0 |
| KSMCJ14 | KSMCJ14C | GEH | BEH | 14 | 15.6 | 19.8 | 1.0 | 25.8 | 58.1 | 5.0 |
| KSMCJ14A | KSMCJ14CA | GEK | BEK | 14 | 15.6 | 17.9 | 1.0 | 23.2 | 64.7 | 5.0 |
| KSMCJ15 | KSMCJ15C | GEL | BEL | 15 | 16.7 | 21.1 | 1.0 | 26.9 | 55.8 | 5.0 |
| KSMCJ15A | KSMCJ15CA | GEM | BEM | 15 | 16.7 | 19.2 | 1.0 | 24.4 | 61.5 | 5.0 |
| KSMCJ16 | KSMCJ16C | GEN | BEN | 16 | 17.8 | 22.6 | 1.0 | 28.8 | 52.1 | 5.0 |
| KSMCJ16A | KSMCJ16CA | GEP | BEP | 16 | 17.8 | 20.5 | 1.0 | 26.0 | 57.7 | 5.0 |
| KSMCJ17 | KSMCJ17C | GEQ | BEQ | 17 | 18.9 | 23.9 | 1.0 | 30.5 | 49.2 | 5.0 |
| KSMCJ17A | KSMCJ17CA | GER | BER | 17 | 18.9 | 21.7 | 1.0 | 27.6 | 54.3 | 5.0 |
| KSMCJ18 | KSMCJ18C | GES | BES | 18 | 20.0 | 25.3 | 1.0 | 32.2 | 46.6 | 5.0 |
| KSMCJ18A | KSMCJ18CA | GET | BET | 18 | 20.0 | 23.3 | 1.0 | 29.2 | 51.4 | 5.0 |
| KSMCJ20 | KSMCJ20C | GEU | BEU | 20 | 22.2 | 28.1 | 1.0 | 35.8 | 41.9 | 5.0 |
| KSMCJ20A | KSMCJ20CA | GEV | BEV | 20 | 22.2 | 25.5 | 1.0 | 32.4 | 46.3 | 5.0 |

※ For Bi-directional type having VRWM of 10 Volts and less, the IR limit is double

| Type Number | | Marking | | Reverse Stand-Off Voltage | Breakdown Voltage Min. @I _r | Breakdown Voltage Max. @ I _r | Test Current | Maximum Clamping Voltage @I _{PP} | Peak Pulse Current | Reverse Leakage @V _{RMW} |
|-------------|-----------|---------|------|---------------------------|--|---|---------------------|---|---------------------|-----------------------------------|
| (Uni) | (Bi) | (Uni) | (Bi) | V _{RMW} (V) | V _{BR MIN} (V) | V _{BR MAX} (V) | I _r (mA) | V _c (V) | I _{PP} (A) | I _r (uA) |
| KSMCJ22 | KSMCJ22C | GEW | BEW | 22 | 24.4 | 30.9 | 1.0 | 39.4 | 38.1 | 5.0 |
| KSMCJ22A | KSMCJ22CA | GEX | BEX | 22 | 24.4 | 28.0 | 1.0 | 35.5 | 42.3 | 5.0 |
| KSMCJ24 | KSMCJ24C | GEY | BEY | 24 | 26.7 | 33.8 | 1.0 | 43.0 | 34.9 | 5.0 |
| KSMCJ24A | KSMCJ24CA | GEZ | BEZ | 24 | 26.7 | 30.7 | 1.0 | 38.9 | 38.6 | 5.0 |
| KSMCJ26 | KSMCJ26C | GFD | BFD | 26 | 28.9 | 36.6 | 1.0 | 46.6 | 32.2 | 5.0 |
| KSMCJ26A | KSMCJ26CA | GFE | BFE | 26 | 28.9 | 33.2 | 1.0 | 42.1 | 35.6 | 5.0 |
| KSMCJ28 | KSMCJ28C | GFF | BFF | 28 | 31.1 | 39.4 | 1.0 | 50.0 | 30.0 | 5.0 |
| KSMCJ28A | KSMCJ28CA | GFG | BFG | 28 | 31.1 | 35.8 | 1.0 | 45.4 | 33.0 | 5.0 |
| KSMCJ30 | KSMCJ30C | GFH | BFH | 30 | 33.3 | 42.2 | 1.0 | 53.5 | 28.0 | 5.0 |
| KSMCJ30A | KSMCJ30CA | GFK | BFK | 30 | 33.3 | 38.3 | 1.0 | 48.4 | 31.0 | 5.0 |
| KSMCJ33 | KSMCJ33C | GFL | BFL | 33 | 36.7 | 46.5 | 1.0 | 59.0 | 25.4 | 5.0 |
| KSMCJ33A | KSMCJ33CA | GFM | BFM | 33 | 36.7 | 42.2 | 1.0 | 53.3 | 28.1 | 5.0 |
| KSMCJ36 | KSMCJ36C | GFN | BFN | 36 | 40.0 | 50.7 | 1.0 | 64.3 | 23.3 | 5.0 |
| KSMCJ36A | KSMCJ36CA | GFP | BFP | 36 | 40.0 | 46.0 | 1.0 | 58.1 | 25.8 | 5.0 |
| KSMCJ40 | KSMCJ40C | GFQ | BFQ | 40 | 44.4 | 56.3 | 1.0 | 71.4 | 21.0 | 5.0 |
| KSMCJ40A | KSMCJ40CA | GFR | BFR | 40 | 44.4 | 51.1 | 1.0 | 64.5 | 23.3 | 5.0 |
| KSMCJ43 | KSMCJ43C | GFS | BFS | 43 | 47.8 | 60.5 | 1.0 | 76.7 | 19.6 | 5.0 |
| KSMCJ43A | KSMCJ43CA | GFT | BFT | 43 | 47.8 | 54.9 | 1.0 | 69.4 | 21.6 | 5.0 |
| KSMCJ45 | KSMCJ45C | GFU | BFU | 45 | 50.0 | 63.3 | 1.0 | 80.3 | 18.7 | 5.0 |
| KSMCJ45A | KSMCJ45CA | GFV | BFV | 45 | 50.0 | 57.5 | 1.0 | 72.7 | 20.6 | 5.0 |
| KSMCJ48 | KSMCJ48C | GJS | BSJ | 48 | 53.3 | 67.5 | 1.0 | 85.5 | 17.5 | 5.0 |
| KSMCJ48A | KSMCJ48CA | GJT | BJT | 48 | 53.3 | 61.3 | 1.0 | 77.4 | 19.4 | 5.0 |
| KSMCJ51 | KSMCJ51C | GJU | BJU | 51 | 56.7 | 71.8 | 1.0 | 91.1 | 16.5 | 5.0 |
| KSMCJ51A | KSMCJ51CA | GJV | BJV | 51 | 56.7 | 65.2 | 1.0 | 82.4 | 18.2 | 5.0 |
| KSMCJ54 | KSMCJ54C | GFW | BFW | 54 | 60.0 | 76.0 | 1.0 | 96.3 | 15.6 | 5.0 |
| KSMCJ54A | KSMCJ54CA | GFY | BFY | 54 | 60.0 | 69.0 | 1.0 | 87.1 | 17.2 | 5.0 |
| KSMCJ58 | KSMCJ58C | GFY | BFY | 58 | 64.4 | 81.6 | 1.0 | 103 | 14.6 | 5.0 |
| KSMCJ58A | KSMCJ58CA | GFZ | BFZ | 58 | 64.4 | 74.1 | 1.0 | 93.6 | 16.0 | 5.0 |
| KSMCJ60 | KSMCJ60C | GGD | BGD | 60 | 66.7 | 84.5 | 1.0 | 107 | 14.0 | 5.0 |
| KSMCJ60A | KSMCJ60CA | GGE | BGE | 60 | 66.7 | 76.7 | 1.0 | 96.8 | 15.5 | 5.0 |
| KSMCJ64 | KSMCJ64C | GGF | BGF | 64 | 71.1 | 90.1 | 1.0 | 114 | 13.2 | 5.0 |
| KSMCJ64A | KSMCJ64CA | GGG | BGG | 64 | 71.1 | 81.8 | 1.0 | 103 | 14.6 | 5.0 |
| KSMCJ70 | KSMCJ70C | GGH | BGH | 70 | 77.8 | 98.6 | 1.0 | 125 | 12.0 | 5.0 |
| KSMCJ70A | KSMCJ70CA | GGK | BGK | 70 | 77.8 | 89.5 | 1.0 | 113 | 13.3 | 5.0 |
| KSMCJ75 | KSMCJ75C | GGL | BGL | 75 | 83.0 | 105.7 | 1.0 | 134 | 11.2 | 5.0 |
| KSMCJ75A | KSMCJ75CA | GGM | BGM | 75 | 83.0 | 95.8 | 1.0 | 121 | 12.4 | 5.0 |
| KSMCJ78 | KSMCJ78C | GGN | BGN | 78 | 86.0 | 109.8 | 1.0 | 139 | 10.8 | 5.0 |
| KSMCJ78A | KSMCJ78CA | GGP | BGP | 78 | 86.0 | 99.7 | 1.0 | 126 | 11.9 | 5.0 |

※ For Bi-directional type having VRWM of 10 Volts and less, the IR limit is double

| Type Number | | Marking | | Reverse Stand-Off Voltage | Breakdown Voltage Min. @I _T | Breakdown Voltage Max. @ I _T | Test Current | Maximum Clamping Voltage @I _{PP} | Peak Pulse Current | Reverse Leakage @V _{RMW} |
|-------------|------------|---------|------|---------------------------|--|---|---------------------|---|---------------------|-----------------------------------|
| (Uni) | (Bi) | (Uni) | (Bi) | V _{RMW} (V) | V _{BR MIN} (V) | V _{BR MAX} (V) | I _T (mA) | V _C (V) | I _{PP} (A) | I _R (uA) |
| KSMCJ85 | KSMCJ85C | GGQ | BGQ | 85 | 94.0 | 119.2 | 1.0 | 151 | 9.9 | 5.0 |
| KSMCJ85A | KSMCJ85CA | GGR | BGR | 85 | 94.0 | 108.2 | 1.0 | 137 | 10.9 | 5.0 |
| KSMCJ90 | KSMCJ90C | GGG | BGS | 90 | 100 | 126.5 | 1.0 | 160 | 9.4 | 5.0 |
| KSMCJ90A | KSMCJ90CA | GGT | BGT | 90 | 100 | 115.5 | 1.0 | 146 | 10.3 | 5.0 |
| KSMCJ100 | KSMCJ100C | GGU | BGU | 100 | 111 | 141.0 | 1.0 | 179 | 8.4 | 5.0 |
| KSMCJ100A | KSMCJ100CA | GGV | BGV | 100 | 111 | 128.0 | 1.0 | 162 | 9.3 | 5.0 |
| KSMCJ110 | KSMCJ110C | GGW | BGW | 110 | 122 | 154.5 | 1.0 | 196 | 7.7 | 5.0 |
| KSMCJ110A | KSMCJ110CA | GGX | BGX | 110 | 122 | 140.5 | 1.0 | 177 | 8.5 | 5.0 |
| KSMCJ120 | KSMCJ120C | GGY | BGY | 120 | 133 | 169.0 | 1.0 | 214 | 7.0 | 5.0 |
| KSMCJ120A | KSMCJ120CA | GGZ | BGZ | 120 | 133 | 153.0 | 1.0 | 193 | 7.8 | 5.0 |
| KSMCJ130 | KSMCJ130C | GHD | BHD | 130 | 144 | 182.5 | 1.0 | 231 | 6.5 | 5.0 |
| KSMCJ130A | KSMCJ130CA | GHE | BHE | 130 | 144 | 165.5 | 1.0 | 209 | 7.2 | 5.0 |
| KSMCJ150 | KSMCJ150C | GHF | BHF | 150 | 167 | 211.5 | 1.0 | 268 | 5.6 | 5.0 |
| KSMCJ150A | KSMCJ150CA | GHG | BHG | 150 | 167 | 192.5 | 1.0 | 243 | 6.2 | 5.0 |
| KSMCJ160 | KSMCJ160C | GHH | BHH | 160 | 178 | 226.0 | 1.0 | 287 | 5.2 | 5.0 |
| KSMCJ160A | KSMCJ160CA | GHK | BHK | 160 | 178 | 205.0 | 1.0 | 259 | 5.8 | 5.0 |
| KSMCJ170 | KSMCJ170C | GHL | BHL | 170 | 189 | 239.5 | 1.0 | 304 | 4.9 | 5.0 |
| KSMCJ170A | KSMCJ170CA | GHM | BHM | 170 | 189 | 217.5 | 1.0 | 275 | 5.5 | 5.0 |
| KSMCJ180 | KSMCJ180C | GHN | BHN | 180 | 200 | 253.8 | 1.0 | 321 | 4.7 | 5.0 |
| KSMCJ180A | KSMCJ180CA | GHP | BHP | 180 | 200 | 230.4 | 1.0 | 290 | 5.2 | 5.0 |
| KSMCJ190 | KSMCJ190C | GHQ | BHQ | 190 | 211 | 267.9 | 1.0 | 339 | 4.4 | 5.0 |
| KSMCJ190A | KSMCJ190CA | GHR | BHR | 190 | 211 | 243.2 | 1.0 | 306 | 4.9 | 5.0 |
| KSMCJ200 | KSMCJ200C | GHW | BHW | 200 | 222 | 282.0 | 1.0 | 356 | 4.2 | 5.0 |
| KSMCJ200A | KSMCJ200CA | GHX | BHX | 200 | 222 | 256.0 | 1.0 | 322 | 4.7 | 5.0 |
| KSMCJ210 | KSMCJ210C | GHY | BHY | 210 | 233 | 296.1 | 1.0 | 375 | 4.0 | 5.0 |
| KSMCJ210A | KSMCJ210CA | GHZ | BHZ | 210 | 233 | 268.8 | 1.0 | 339 | 4.4 | 5.0 |
| KSMCJ220 | KSMCJ220C | GJD | BJD | 220 | 244 | 310.2 | 1.0 | 392 | 3.8 | 5.0 |
| KSMCJ220A | KSMCJ220CA | GJE | BJE | 220 | 244 | 281.6 | 1.0 | 355 | 4.2 | 5.0 |
| KSMCJ250 | KSMCJ250C | GJF | BJF | 250 | 278 | 342.5 | 1.0 | 447 | 3.4 | 5.0 |
| KSMCJ250A | KSMCJ250CA | GJG | BJG | 250 | 278 | 309.0 | 1.0 | 403 | 3.7 | 5.0 |
| KSMCJ300 | KSMCJ300C | GJH | BJH | 300 | 333 | 411.0 | 1.0 | 535 | 2.8 | 5.0 |
| KSMCJ300A | KSMCJ300CA | GJK | BJK | 300 | 333 | 371.0 | 1.0 | 484 | 3.1 | 5.0 |
| KSMCJ350 | KSMCJ350C | GJL | BJL | 350 | 389 | 479.5 | 1.0 | 624 | 2.4 | 5.0 |
| KSMCJ350A | KSMCJ350CA | GJM | BJM | 350 | 389 | 432.0 | 1.0 | 565 | 2.7 | 5.0 |
| KSMCJ400 | KSMCJ400C | GJN | BJN | 400 | 444 | 548.0 | 1.0 | 687 | 2.2 | 5.0 |
| KSMCJ400A | KSMCJ400CA | GJP | BJP | 400 | 444 | 494.0 | 1.0 | 645 | 2.3 | 5.0 |
| KSMCJ440 | KSMCJ440C | GJQ | BJQ | 440 | 489 | 602.8 | 1.0 | 786 | 1.9 | 5.0 |
| KSMCJ440A | KSMCJ440CA | GJR | BJR | 440 | 489 | 543.0 | 1.0 | 710 | 2.1 | 5.0 |

※ For Bi-directional type having VRWM of 10 Volts and less, the IR limit is double

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

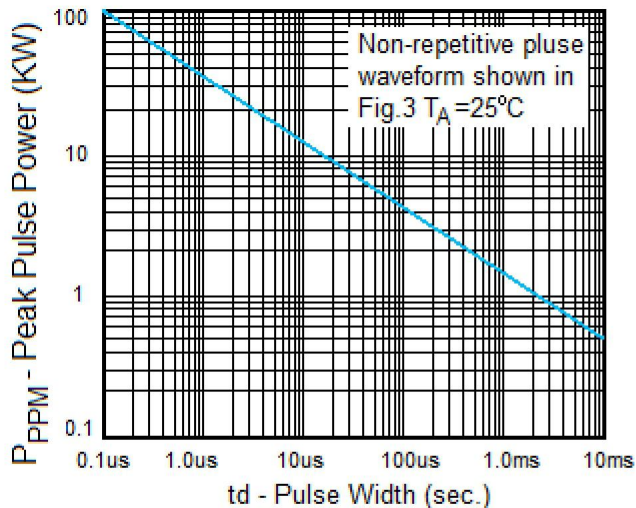


Fig. 1 Peak Pulse Power Rating

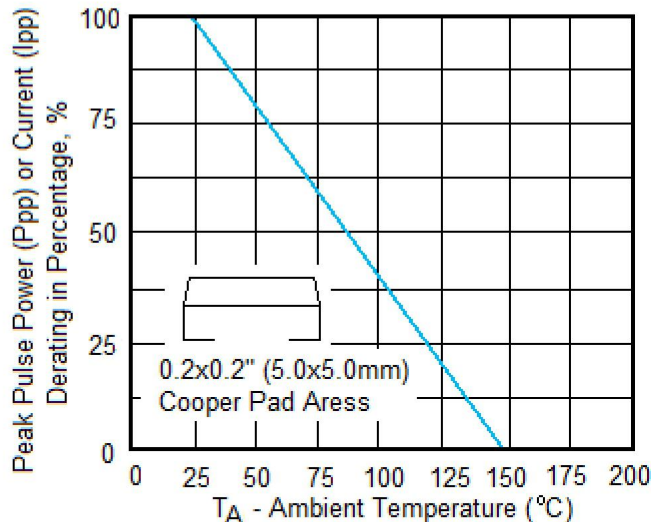


Fig.2 Pulse Derating Curve

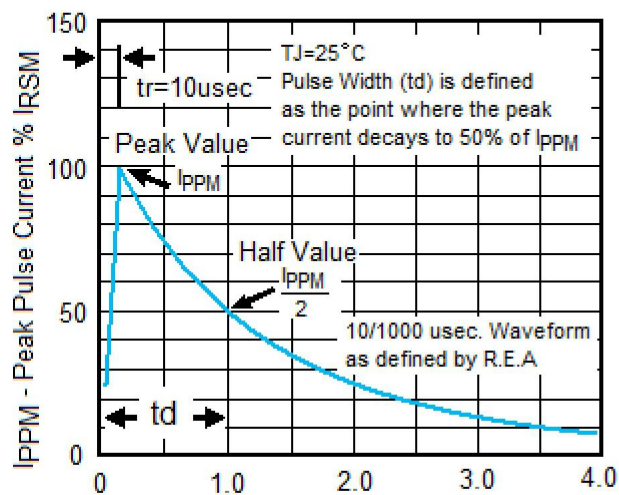


Fig.3 Pulse Waveform

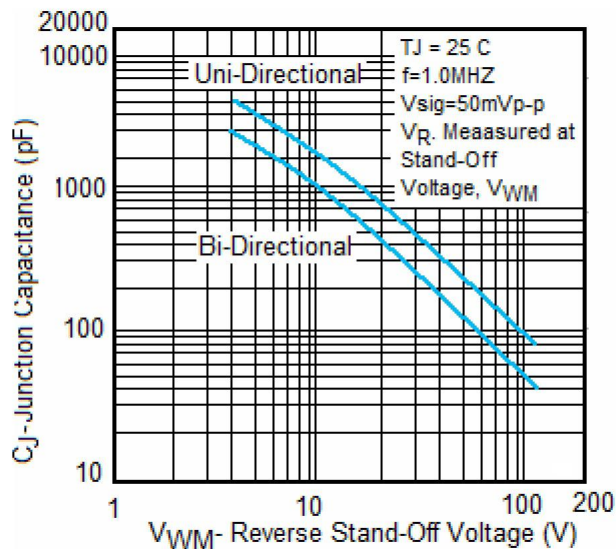
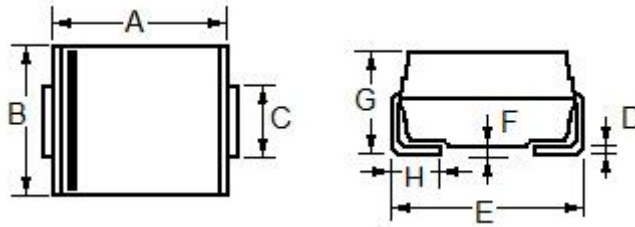


Fig. 4- Typical Junction Capacitance

Package Outline Dimensions and Pad Layouts

SMC



| Dim | Millimeters | | Inches | |
|-----|-------------|-------|--------|-------|
| | Min | Max | Min | Max |
| A | 6.60 | 7.11 | 0.260 | 0.280 |
| B | 5.59 | 6.22 | 0.220 | 0.245 |
| C | 2.90 | 3.20 | 0.114 | 0.126 |
| D | 0.125 | 0.305 | 0.006 | 0.012 |
| E | 7.60 | 8.13 | 0.299 | 0.320 |
| F | ---- | 0.203 | ---- | 0.008 |
| G | 2.06 | 2.62 | 0.079 | 0.103 |
| H | 0.76 | 1.52 | 0.030 | 0.060 |

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[SMBJ33CATR](#) [SMBJ6.5A](#) [SMBJ8.0A](#) [ESD101-B1-02ELS](#) [E6327](#) [ESD112-B1-02EL](#) [E6327](#) [ESD7451N2T5G](#) [19180-510](#) [CPDT-5V0USP-](#)
[HF](#) [3.0SMCJ33CA-F](#) [3.0SMCJ36A-F](#) [HSPC16701B02TP](#) [JANTX1N6126A](#) [D3V3Q1B2DLP3-7](#) [D55V0M1B2WS-7](#) [SCM1293A-04SO](#)
[ESD200-B1-CSP0201](#) [E6327](#) [SM12-7](#) [CEN955](#) [W/DATA](#) [VESD12A1A-HD1-GS08](#) [CPDQC5V0-HF](#) [D1213A-01LP4-7B](#) [ESD101-B1-02EL](#)
[E6327](#) [AOZ8808DI-03](#) [5KP15A](#) [5KP48A](#) [5KP90A](#) [ESD3V3D7-TP](#) [15KPA36A-LF](#) [P4KE56CA](#) [P4KE68A](#) [P4KE91CATR](#) [P6KE120A](#)
[P6KE13CA](#) [P6KE43CA](#) [P6KE6.8CA](#) [P6KE8.2](#) [P6SMBJ20CA](#) [JANTX1N6072A](#) [SR2835ESKG](#) [SA90CA](#)