



TVS 瞬態電壓抑制二極管  
Voltage : 5V0 - 170V

1.5SMCJ5.0 - 1.5SMCJ170CA  
1500W Surface Mount Transient Voltage Suppressor

□ Feature

- ◆ Fast Response Time
- ◆ 5.0V-170V Stand-off Voltage
- ◆ Excellent Clamping Capability
- ◆ Glass Passivated Die Construction
- ◆ 1500W Peak Pulse Power Dissipation
- ◆ Uni-and Bi-Directional Versions Available
- ◆ Plastic Case Material has UL Flammability Classification Rating 94V-0

□ Mechanical Data

- ◆ Weight: 0.21 grams (approx)
- ◆ Marking: Device Marking Code
- ◆ Case: SMC/DO-214AB, Molded Plastic
- ◆ Polarity: Cathode Band Except Bi-Directional
- ◆ Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026.
- ◆ Lead Free: For **RoHS** / Lead Free Version Add "-LF" Suffix to part Number.

□ Dimension

Case: SMC/DO-214AB (mm)

| Dim | Min   | Max   |
|-----|-------|-------|
| A   | 5.59  | 6.22  |
| B   | 6.6   | 7.11  |
| C   | 2.75  | 3.25  |
| D   | 0.152 | 0.305 |
| E   | 7.75  | 8.13  |
| F   | 2.0   | 2.62  |
| G   | 0.051 | 0.203 |
| H   | 0.76  | 1.27  |

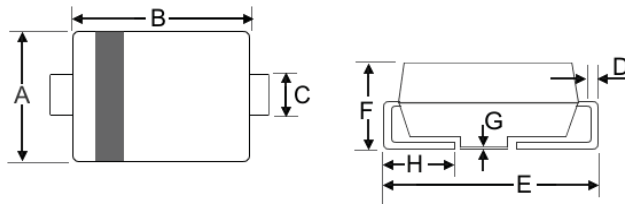


Figure Case SMC/DO-214AB



- "C" : Suffix designates Bi-directional Devices
- "A" : Suffix designates ±5% Tolerance Devices
- "No" : Suffix designates ±10% Tolerance Devices

□ Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

| CHARACTERISTIC   | Symbol                             | Value     | Unit |
|--|------------------------------------|-----------|------|
| Peak Pulse Power Dissipation 10/1000µS Waveform (note 1,2) Figure 3.                                       | P <sub>PPM</sub>                   | 1500 Min. | W    |
| Peak pulse current on 10/1000µS Waveform (note 1) Figure 4.  | I <sub>PPM</sub>                   | Table 1   | A    |
| Steady state power dissipation (Note 4.)   | P <sub>M(AV)</sub>                 | 6.5       | W    |
| Peak forward surge current 8.3ms single half sine-wave superimposed on ratedload (JEDEC Mathod) (Note2,3.) | I <sub>FSM</sub>                   | 200       | A    |
| Typical Thermal Resistance   | R <sub>θJL</sub>                   | 15        | °C/W |
|  | R <sub>θJA</sub>                   | 90        |      |
| Operating and Storage Temperature Range  | T <sub>J</sub> , T <sub>STG.</sub> | -65~+150  | °C   |

- Note:
1. Non-repetitive current pulse per Figure 4 and derated above T<sub>A</sub> =25°C per Figure 1.
  2. Mounted on 8.0mm<sup>2</sup> copper pad to each terminal
  3. Measured on 8.3ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minutes maximum.
  4. Lead temperature at 75°C
  5. Peak pulse power waveform is 10/1000µS.
  6. Mounted on minimum recommended pad layout.



SINLOON®

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1.5SMCJ5.0 - 1.5SMCJ170CA

Voltage : 5V0 - 170V

1500W Surface Mount Transient Voltage Suppressor

Uni-Direction 1500 Watt Surface Mount TVS (Table 1)

| Uni-Directional | Device Marking | Reverse Stand-off Voltage | Breakdown Voltage $V_{BR}(V)$ |              | Test Current $I_T$ | Max. Clamping Voltage | Peak Pulse Current | Reverse Leakage @ $V_{RWM}$ |
|-----------------|----------------|---------------------------|-------------------------------|--------------|--------------------|-----------------------|--------------------|-----------------------------|
| Part No.        | Code           | $V_{RWM}(V)$              | Min. @ $I_T$                  | Max. @ $I_T$ | (mA)               | $I_{pp} V_c(V)$       | $I_{pp}(A)$        | IR ( $\mu A$ )              |
| 1.5SMCJ5.0      | GDD            | 5.0                       | 6.40                          | 7.30         | 10.0               | 9.6                   | 156.20             | 1000.0                      |
| 1.5SMCJ5.0A     | GDE            | 5.0                       | 6.40                          | 7.00         | 10.0               | 9.2                   | 163.00             | 1000.0                      |
| 1.5SMCJ6.0      | GDF            | 6.0                       | 6.67                          | 8.15         | 10.0               | 11.4                  | 131.60             | 1000.0                      |
| 1.5SMCJ6.0A     | GDG            | 6.0                       | 6.67                          | 7.37         | 10.0               | 10.3                  | 145.60             | 1000.0                      |
| 1.5SMCJ6.5      | GDH            | 6.5                       | 7.55                          | 8.82         | 10.0               | 12.3                  | 122.00             | 500.0                       |
| 1.5SMCJ6.5A     | GDK            | 6.5                       | 7.55                          | 7.98         | 10.0               | 11.2                  | 133.90             | 500.0                       |
| 1.5SMCJ7.0      | GDL            | 7.0                       | 7.78                          | 9.51         | 10.0               | 13.3                  | 112.80             | 200.0                       |
| 1.5SMCJ7.0A     | GDM            | 7.0                       | 7.78                          | 8.60         | 10.0               | 12.0                  | 125.00             | 200.0                       |
| 1.5SMCJ7.5      | GDN            | 7.5                       | 8.33                          | 10.20        | 1.0                | 14.3                  | 104.90             | 100.0                       |
| 1.5SMCJ7.5A     | GDP            | 7.5                       | 8.33                          | 9.21         | 1.0                | 12.9                  | 116.30             | 100.0                       |
| 1.5SMCJ8.0      | GDQ            | 8.0                       | 8.89                          | 10.90        | 1.0                | 15.0                  | 100.00             | 50.0                        |
| 1.5SMCJ8.0A     | GDR            | 8.0                       | 8.89                          | 9.83         | 1.0                | 13.6                  | 110.3              | 50.0                        |
| 1.5SMCJ8.5      | GDS            | 8.5                       | 9.44                          | 11.50        | 1.0                | 15.9                  | 94.3               | 25.0                        |
| 1.5SMCJ8.5A     | GDT            | 8.5                       | 9.44                          | 10.40        | 1.0                | 14.4                  | 104.2              | 25.0                        |
| 1.5SMCJ9.0      | GDU            | 9.0                       | 10.0                          | 12.20        | 1.0                | 16.9                  | 88.7               | 10.0                        |
| 1.5SMCJ9.0A     | GDV            | 9.0                       | 10.0                          | 11.10        | 1.0                | 15.4                  | 97.4               | 10.0                        |
| 1.5SMCJ10       | GDW            | 10.0                      | 11.1                          | 13.60        | 1.0                | 18.8                  | 79.8               | 5.0                         |
| 1.5SMCJ10A      | GDZ            | 10.0                      | 11.1                          | 12.30        | 1.0                | 17.0                  | 88.2               | 5.0                         |
| 1.5SMCJ11       | GDY            | 11.0                      | 12.2                          | 14.90        | 1.0                | 20.1                  | 74.6               | 5.0                         |
| 1.5SMCJ11A      | GDZ            | 11.0                      | 12.2                          | 13.50        | 1.0                | 18.2                  | 82.4               | 5.0                         |
| 1.5SMCJ12       | GED            | 12.0                      | 13.3                          | 16.30        | 1.0                | 22.0                  | 68.2               | 5.0                         |
| 1.5SMCJ12A      | GEE            | 12.0                      | 13.3                          | 14.70        | 1.0                | 19.9                  | 75.3               | 5.0                         |
| 1.5SMCJ13       | GEF            | 13.0                      | 14.4                          | 17.60        | 1.0                | 23.8                  | 63.0               | 1.0                         |
| 1.5SMCJ13A      | GEG            | 13.0                      | 14.4                          | 15.90        | 1.0                | 21.5                  | 69.7               | 1.0                         |
| 1.5SMCJ14       | GEH            | 14.0                      | 15.6                          | 19.10        | 1.0                | 25.8                  | 58.1               | 1.0                         |
| 1.5SMCJ14A      | GEK            | 14.0                      | 15.6                          | 17.20        | 1.0                | 23.2                  | 64.7               | 1.0                         |
| 1.5SMCJ15       | GEL            | 15.0                      | 16.7                          | 20.40        | 1.0                | 26.9                  | 55.8               | 1.0                         |
| 1.5SMCJ15A      | GEM            | 15.0                      | 16.7                          | 18.50        | 1.0                | 24.4                  | 61.5               | 1.0                         |
| 1.5SMCJ16       | GEN            | 16.0                      | 17.8                          | 21.80        | 1.0                | 28.8                  | 52.1               | 1.0                         |
| 1.5SMCJ16A      | GEP            | 16.0                      | 17.8                          | 19.70        | 1.0                | 26.0                  | 57.7               | 1.0                         |
| 1.5SMCJ17       | GEQ            | 17.0                      | 18.9                          | 23.10        | 1.0                | 30.5                  | 49.2               | 1.0                         |
| 1.5SMCJ17A      | GER            | 17.0                      | 18.9                          | 20.90        | 1.0                | 27.6                  | 53.3               | 1.0                         |
| 1.5SMCJ18       | GES            | 18.0                      | 20.0                          | 24.40        | 1.0                | 32.2                  | 46.6               | 1.0                         |
| 1.5SMCJ18A      | GET            | 18.0                      | 20.0                          | 22.10        | 1.0                | 29.2                  | 51.4               | 1.0                         |
| 1.5SMCJ20       | GEU            | 20.0                      | 22.2                          | 27.10        | 1.0                | 35.8                  | 41.9               | 1.0                         |
| 1.5SMCJ20A      | GEV            | 20.0                      | 22.2                          | 24.50        | 1.0                | 32.4                  | 46.3               | 1.0                         |
| 1.5SMCJ22       | GEW            | 22.0                      | 24.4                          | 29.80        | 1.0                | 39.4                  | 38.1               | 1.0                         |
| 1.5SMCJ22A      | GEX            | 22.0                      | 24.4                          | 26.90        | 1.0                | 35.5                  | 52.2               | 1.0                         |
| 1.5SMCJ24       | GEY            | 24.0                      | 26.7                          | 32.60        | 1.0                | 43.0                  | 34.9               | 1.0                         |
| 1.5SMCJ24A      | GEZ            | 24.0                      | 26.7                          | 29.50        | 1.0                | 38.9                  | 38.6               | 1.0                         |
| 1.5SMCJ26       | GFD            | 26.0                      | 28.9                          | 36.30        | 1.0                | 46.6                  | 32.2               | 1.0                         |
| 1.5SMCJ26A      | GFE            | 26.0                      | 28.9                          | 31.90        | 1.0                | 42.1                  | 35.6               | 1.0                         |
| 1.5SMCJ28       | GFF            | 28.0                      | 31.1                          | 38.00        | 1.0                | 50.0                  | 30.0               | 1.0                         |
| 1.5SMCJ28A      | GFG            | 28.0                      | 31.1                          | 34.40        | 1.0                | 45.4                  | 33.0               | 1.0                         |
| 1.5SMCJ30       | GFH            | 30.0                      | 33.3                          | 40.70        | 1.0                | 53.5                  | 28.0               | 1.0                         |
| 1.5SMCJ30A      | GFK            | 30.0                      | 33.3                          | 36.80        | 1.0                | 48.4                  | 31.0               | 1.0                         |
| 1.5SMCJ33       | GFL            | 33.0                      | 36.7                          | 44.90        | 1.0                | 59.0                  | 25.2               | 1.0                         |
| 1.5SMCJ33A      | GFM            | 33.0                      | 36.7                          | 40.60        | 1.0                | 53.3                  | 28.1               | 1.0                         |
| 1.5SMCJ36       | GFN            | 36.0                      | 40.0                          | 48.90        | 1.0                | 64.3                  | 23.3               | 1.0                         |
| 1.5SMCJ36A      | GFP            | 36.0                      | 40.0                          | 44.20        | 1.0                | 58.1                  | 25.8               | 1.0                         |
| 1.5SMCJ40       | GFQ            | 40.0                      | 44.4                          | 54.30        | 1.0                | 71.4                  | 21.0               | 1.0                         |
| 1.5SMCJ40A      | GFR            | 40.0                      | 44.4                          | 49.10        | 1.0                | 64.5                  | 23.2               | 1.0                         |
| 1.5SMCJ43       | GFX            | 43.0                      | 47.8                          | 58.40        | 1.0                | 76.7                  | 19.6               | 1.0                         |
| 1.5SMCJ43A      | GFT            | 43.0                      | 47.8                          | 52.80        | 1.0                | 69.4                  | 21.6               | 1.0                         |
| 1.5SMCJ45       | GFV            | 45.0                      | 50.0                          | 61.10        | 1.0                | 80.3                  | 18.7               | 1.0                         |
| 1.5SMCJ45A      | GFV            | 45.0                      | 50.0                          | 55.30        | 1.0                | 72.7                  | 20.6               | 1.0                         |
| 1.5SMCJ48       | GFW            | 48.0                      | 53.3                          | 65.10        | 1.0                | 85.5                  | 17.5               | 1.0                         |
| 1.5SMCJ48A      | GFX            | 48.0                      | 53.3                          | 58.90        | 1.0                | 77.4                  | 19.4               | 1.0                         |
| 1.5SMCJ51       | GFY            | 50.0                      | 56.7                          | 69.30        | 1.0                | 91.1                  | 18.5               | 1.0                         |
| 1.5SMCJ51A      | GFZ            | 51.0                      | 56.7                          | 62.70        | 1.0                | 82.4                  | 18.2               | 1.0                         |
| 1.5SMCJ54       | GGD            | 54.0                      | 60.0                          | 73.30        | 1.0                | 96.3                  | 15.6               | 1.0                         |
| 1.5SMCJ54A      | GGE            | 54.0                      | 60.0                          | 66.30        | 1.0                | 87.1                  | 17.2               | 1.0                         |
| 1.5SMCJ58       | GGF            | 58.0                      | 64.4                          | 78.70        | 1.0                | 103.0                 | 14.6               | 1.0                         |
| 1.5SMCJ58A      | GGG            | 58.0                      | 64.4                          | 71.20        | 1.0                | 93.6                  | 16.0               | 1.0                         |
| 1.5SMCJ60       | GGH            | 60.0                      | 66.7                          | 81.50        | 1.0                | 107.0                 | 14.0               | 1.0                         |
| 1.5SMCJ60A      | GGK            | 60.0                      | 66.7                          | 73.70        | 1.0                | 96.8                  | 15.5               | 1.0                         |
| 1.5SMCJ64       | GGL            | 64.0                      | 71.1                          | 86.90        | 1.0                | 114.0                 | 13.2               | 1.0                         |
| 1.5SMCJ64A      | GGM            | 64.0                      | 71.1                          | 78.60        | 1.0                | 103.0                 | 14.6               | 1.0                         |
| 1.5SMCJ70       | GGN            | 70.0                      | 77.8                          | 95.10        | 1.0                | 125.0                 | 12.0               | 1.0                         |
| 1.5SMCJ70A      | GGP            | 70.0                      | 77.8                          | 86.10        | 1.0                | 113.0                 | 13.3               | 1.0                         |
| 1.5SMCJ75       | GGQ            | 75.0                      | 83.3                          | 102.00       | 1.0                | 134.0                 | 11.2               | 1.0                         |
| 1.5SMCJ75A      | GGR            | 75.0                      | 83.3                          | 92.10        | 1.0                | 121.0                 | 12.4               | 1.0                         |
| 1.5SMCJ78       | GGX            | 78.0                      | 86.7                          | 106.00       | 1.0                | 139.0                 | 10.8               | 1.0                         |
| 1.5SMCJ78A      | GGT            | 78.0                      | 86.7                          | 95.80        | 1.0                | 126.0                 | 11.4               | 1.0                         |
| 1.5SMCJ85       | GGU            | 85.0                      | 94.4                          | 115.00       | 1.0                | 151.0                 | 9.9                | 1.0                         |
| 1.5SMCJ85A      | GGV            | 85.0                      | 94.4                          | 104.00       | 1.0                | 137.0                 | 10.4               | 1.0                         |
| 1.5SMCJ90       | GGW            | 90.0                      | 100                           | 122.00       | 1.0                | 160.0                 | 9.4                | 1.0                         |
| 1.5SMCJ90A      | GGX            | 90.0                      | 100                           | 111.00       | 1.0                | 146.0                 | 10.3               | 1.0                         |
| 1.5SMCJ100      | GGY            | 100.0                     | 111                           | 136.00       | 1.0                | 179.0                 | 8.4                | 1.0                         |
| 1.5SMCJ100A     | GGZ            | 100.0                     | 111                           | 123.00       | 1.0                | 162.0                 | 9.3                | 1.0                         |
| 1.5SMCJ110      | GHD            | 110.0                     | 122                           | 149.00       | 1.0                | 196.0                 | 7.7                | 1.0                         |
| 1.5SMCJ110A     | GHE            | 110.0                     | 122                           | 135.00       | 1.0                | 177.0                 | 8.4                | 1.0                         |
| 1.5SMCJ120      | GHF            | 120.0                     | 133                           | 163.00       | 1.0                | 214.0                 | 7.0                | 1.0                         |
| 1.5SMCJ120A     | GHG            | 120.0                     | 133                           | 147.00       | 1.0                | 193.0                 | 7.9                | 1.0                         |
| 1.5SMCJ130      | GHH            | 130.0                     | 144                           | 176.00       | 1.0                | 231.0                 | 6.5                | 1.0                         |
| 1.5SMCJ130A     | GHK            | 130.0                     | 144                           | 159.00       | 1.0                | 209.0                 | 7.2                | 1.0                         |
| 1.5SMCJ150      | GHL            | 150.0                     | 167                           | 204.00       | 1.0                | 268.0                 | 5.6                | 1.0                         |
| 1.5SMCJ150A     | GHM            | 150.0                     | 167                           | 185.00       | 1.0                | 243.0                 | 6.2                | 1.0                         |
| 1.5SMCJ160      | GHN            | 160.0                     | 178                           | 218.00       | 1.0                | 287.0                 | 5.2                | 1.0                         |
| 1.5SMCJ160A     | GHP            | 160.0                     | 178                           | 197.00       | 1.0                | 259.0                 | 5.8                | 1.0                         |
| 1.5SMCJ170      | GHQ            | 170.0                     | 189                           | 231.00       | 1.0                | 304.0                 | 4.9                | 1.0                         |
| 1.5SMCJ170A     | GHR            | 170.0                     | 189                           | 209.00       | 1.0                | 275.0                 | 5.5                | 1.0                         |



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Voltage : 5V0 - 170V

1.5SMCJ5.0 - 1.5SMCJ170CA  
1500W Surface Mount Transient Voltage Suppressor

□ Uni-Direction 1500 Watt Surface Mount TVS (Table 1)

| Part No.     | Device Marking Code | Reverse Stand-off Voltage $V_{RWM}(V)$ | Breakdown Voltage $V_{BR}(V)$ |              | Test Current $I_T$ (mA) | Max. Clamping Voltage $I_{pp} V_c(V)$ | Peak Pulse Current $I_{pp}(A)$ | Reverse Leakage @ $V_{RWM}$ (μA) |
|--------------|---------------------|--|-------------------------------|--------------|-------------------------|---------------------------------------|--------------------------------|----------------------------------|
|              |                     |  | Min. @ $I_T$                  | Max. @ $I_T$ |                         |                                       |                                |                                  |
| 1.5SMCJ5.0C  | BDD                 | 5.0                                    | 6.40                          | 7.30         | 10.0                    | 9.6                                   | 156.20                         | 2000.0                           |
| 1.5SMCJ5.0CA | BDE                 | 5.0                                    | 6.40                          | 7.00         | 10.0                    | 9.2                                   | 163.00                         | 2000.0                           |
| 1.5SMCJ6.0C  | GDF                 | 6.0                                    | 6.67                          | 8.15         | 10.0                    | 11.4                                  | 131.60                         | 2000.0                           |
| 1.5SMCJ6.0CA | BDG                 | 6.0                                    | 6.67                          | 7.37         | 10.0                    | 10.3                                  | 145.60                         | 2000.0                           |
| 1.5SMCJ6.5C  | BDH                 | 6.5                                    | 7.55                          | 8.82         | 10.0                    | 12.3                                  | 122.00                         | 1000.0                           |
| 1.5SMCJ6.5CA | BDK                 | 6.5                                    | 7.55                          | 7.98         | 10.0                    | 11.2                                  | 133.90                         | 1000.0                           |
| 1.5SMCJ7.0C  | BDL                 | 7.0                                    | 7.78                          | 9.51         | 10.0                    | 13.3                                  | 112.80                         | 400.0                            |
| 1.5SMCJ7.0CA | BDM                 | 7.0                                    | 7.78                          | 8.60         | 10.0                    | 12.0                                  | 125.00                         | 400.0                            |
| 1.5SMCJ7.5C  | BDN                 | 7.5                                    | 8.33                          | 10.20        | 1.0                     | 14.3                                  | 104.90                         | 200.0                            |
| 1.5SMCJ7.5CA | BDP                 | 7.5                                    | 8.33                          | 9.21         | 1.0                     | 12.9                                  | 116.30                         | 200.0                            |
| 1.5SMCJ8.0C  | BDQ                 | 8.0                                    | 8.89                          | 10.90        | 1.0                     | 15.0                                  | 100.00                         | 100.0                            |
| 1.5SMCJ8.0CA | BDR                 | 8.0                                    | 8.89                          | 9.83         | 1.0                     | 13.6                                  | 110.3                          | 100.0                            |
| 1.5SMCJ8.5C  | BDS                 | 8.5                                    | 9.44                          | 11.50        | 1.0                     | 15.9                                  | 94.3                           | 50.0                             |
| 1.5SMCJ8.5CA | BDT                 | 8.5                                    | 9.44                          | 10.40        | 1.0                     | 14.4                                  | 104.2                          | 50.0                             |
| 1.5SMCJ9.0C  | BDU                 | 9.0                                    | 10.0                          | 12.20        | 1.0                     | 16.9                                  | 88.7                           | 20.0                             |
| 1.5SMCJ9.0CA | BDV                 | 9.0                                    | 10.0                          | 11.10        | 1.0                     | 15.4                                  | 97.4                           | 20.0                             |
| 1.5SMCJ10C   | BDW                 | 10.0                                   | 11.1                          | 13.60        | 1.0                     | 18.8                                  | 79.8                           | 5.0                              |
| 1.5SMCJ10CA  | BDZ                 | 10.0                                   | 11.1                          | 12.30        | 1.0                     | 17.0                                  | 88.2                           | 5.0                              |
| 1.5SMCJ11C   | BDY                 | 11.0                                   | 12.2                          | 14.90        | 1.0                     | 20.1                                  | 74.6                           | 5.0                              |
| 1.5SMCJ11CA  | BDZ                 | 11.0                                   | 12.2                          | 13.50        | 1.0                     | 18.2                                  | 82.4                           | 5.0                              |
| 1.5SMCJ12C   | BED                 | 12.0                                   | 13.3                          | 16.30        | 1.0                     | 22.0                                  | 68.2                           | 5.0                              |
| 1.5SMCJ12CA  | BEE                 | 12.0                                   | 13.3                          | 14.70        | 1.0                     | 19.9                                  | 75.3                           | 5.0                              |
| 1.5SMCJ13C   | BEF                 | 13.0                                   | 14.4                          | 17.60        | 1.0                     | 23.8                                  | 63.0                           | 1.0                              |
| 1.5SMCJ13CA  | BEG                 | 13.0                                   | 14.4                          | 15.90        | 1.0                     | 21.5                                  | 69.7                           | 1.0                              |
| 1.5SMCJ14C   | BEH                 | 14.0                                   | 15.6                          | 19.10        | 1.0                     | 25.8                                  | 58.1                           | 1.0                              |
| 1.5SMCJ14CA  | BEK                 | 14.0                                   | 15.6                          | 17.20        | 1.0                     | 23.2                                  | 64.7                           | 1.0                              |
| 1.5SMCJ15C   | BEL                 | 15.0                                   | 16.7                          | 20.40        | 1.0                     | 26.9                                  | 55.8                           | 1.0                              |
| 1.5SMCJ15CA  | BEM                 | 15.0                                   | 16.7                          | 18.50        | 1.0                     | 24.4                                  | 61.5                           | 1.0                              |
| 1.5SMCJ16C   | BEN                 | 16.0                                   | 17.8                          | 21.80        | 1.0                     | 28.8                                  | 52.1                           | 1.0                              |
| 1.5SMCJ16CA  | BEP                 | 16.0                                   | 17.8                          | 19.70        | 1.0                     | 26.0                                  | 57.7                           | 1.0                              |
| 1.5SMCJ17C   | BEQ                 | 17.0                                   | 18.9                          | 23.10        | 1.0                     | 30.5                                  | 49.2                           | 1.0                              |
| 1.5SMCJ17CA  | BER                 | 17.0                                   | 18.9                          | 20.90        | 1.0                     | 27.6                                  | 53.3                           | 1.0                              |
| 1.5SMCJ18C   | BES                 | 18.0                                   | 20.0                          | 24.40        | 1.0                     | 32.2                                  | 46.6                           | 1.0                              |
| 1.5SMCJ18CA  | BET                 | 18.0                                   | 20.0                          | 22.10        | 1.0                     | 29.2                                  | 51.4                           | 1.0                              |
| 1.5SMCJ20C   | BEU                 | 20.0                                   | 22.2                          | 27.10        | 1.0                     | 35.8                                  | 41.9                           | 1.0                              |
| 1.5SMCJ20CA  | BEV                 | 20.0                                   | 22.2                          | 24.50        | 1.0                     | 32.4                                  | 46.3                           | 1.0                              |
| 1.5SMCJ22C   | BEW                 | 22.0                                   | 24.4                          | 29.80        | 1.0                     | 39.4                                  | 38.1                           | 1.0                              |
| 1.5SMCJ22CA  | BEX                 | 22.0                                   | 24.4                          | 26.90        | 1.0                     | 35.5                                  | 52.2                           | 1.0                              |
| 1.5SMCJ24C   | BEY                 | 24.0                                   | 26.7                          | 32.60        | 1.0                     | 43.0                                  | 34.9                           | 1.0                              |
| 1.5SMCJ24CA  | BEZ                 | 24.0                                   | 26.7                          | 29.50        | 1.0                     | 38.9                                  | 38.6                           | 1.0                              |
| 1.5SMCJ26C   | BFD                 | 26.0                                   | 28.9                          | 36.30        | 1.0                     | 46.6                                  | 32.2                           | 1.0                              |
| 1.5SMCJ26CA  | BFE                 | 26.0                                   | 28.9                          | 31.90        | 1.0                     | 42.1                                  | 35.6                           | 1.0                              |
| 1.5SMCJ28C   | BFF                 | 28.0                                   | 31.1                          | 38.00        | 1.0                     | 50.0                                  | 30.0                           | 1.0                              |
| 1.5SMCJ28CA  | BFG                 | 28.0                                   | 31.1                          | 34.40        | 1.0                     | 45.4                                  | 33.0                           | 1.0                              |
| 1.5SMCJ30C   | BFH                 | 30.0                                   | 33.3                          | 40.70        | 1.0                     | 53.5                                  | 28.0                           | 1.0                              |
| 1.5SMCJ30CA  | BFK                 | 30.0                                   | 33.3                          | 36.80        | 1.0                     | 48.4                                  | 31.0                           | 1.0                              |
| 1.5SMCJ33C   | BFL                 | 33.0                                   | 36.7                          | 44.90        | 1.0                     | 59.0                                  | 25.2                           | 1.0                              |
| 1.5SMCJ33CA  | BFM                 | 33.0                                   | 36.7                          | 40.60        | 1.0                     | 53.3                                  | 28.1                           | 1.0                              |
| 1.5SMCJ36C   | BFN                 | 36.0                                   | 40.0                          | 48.90        | 1.0                     | 64.3                                  | 23.3                           | 1.0                              |
| 1.5SMCJ36CA  | BFP                 | 36.0                                   | 40.0                          | 44.20        | 1.0                     | 58.1                                  | 25.8                           | 1.0                              |
| 1.5SMCJ40C   | BFQ                 | 40.0                                   | 44.4                          | 54.30        | 1.0                     | 71.4                                  | 21.0                           | 1.0                              |
| 1.5SMCJ40CA  | BFR                 | 40.0                                   | 44.4                          | 49.10        | 1.0                     | 64.5                                  | 23.2                           | 1.0                              |
| 1.5SMCJ43C   | BFX                 | 43.0                                   | 47.8                          | 58.40        | 1.0                     | 76.7                                  | 19.6                           | 1.0                              |
| 1.5SMCJ43CA  | BFT                 | 43.0                                   | 47.8                          | 52.80        | 1.0                     | 69.4                                  | 21.6                           | 1.0                              |
| 1.5SMCJ45C   | BFV                 | 45.0                                   | 50.0                          | 61.10        | 1.0                     | 80.3                                  | 18.7                           | 1.0                              |
| 1.5SMCJ45CA  | BFV                 | 45.0                                   | 50.0                          | 55.30        | 1.0                     | 72.7                                  | 20.6                           | 1.0                              |
| 1.5SMCJ48C   | BFW                 | 48.0                                   | 53.3                          | 65.10        | 1.0                     | 85.5                                  | 17.5                           | 1.0                              |
| 1.5SMCJ48CA  | BFX                 | 48.0                                   | 53.3                          | 58.90        | 1.0                     | 77.4                                  | 19.4                           | 1.0                              |
| 1.5SMCJ51C   | BFY                 | 50.0                                   | 56.7                          | 69.30        | 1.0                     | 91.1                                  | 18.5                           | 1.0                              |
| 1.5SMCJ51CA  | BFZ                 | 51.0                                   | 56.7                          | 62.70        | 1.0                     | 82.4                                  | 18.2                           | 1.0                              |
| 1.5SMCJ54C   | BGD                 | 54.0                                   | 60.0                          | 73.30        | 1.0                     | 96.3                                  | 15.6                           | 1.0                              |
| 1.5SMCJ54CA  | BGE                 | 54.0                                   | 60.0                          | 66.30        | 1.0                     | 87.1                                  | 17.2                           | 1.0                              |
| 1.5SMCJ58C   | BGF                 | 58.0                                   | 64.4                          | 78.70        | 1.0                     | 103.0                                 | 14.6                           | 1.0                              |
| 1.5SMCJ58CA  | BGG                 | 58.0                                   | 64.4                          | 71.20        | 1.0                     | 93.6                                  | 16.0                           | 1.0                              |
| 1.5SMCJ60C   | BGH                 | 60.0                                   | 66.7                          | 81.50        | 1.0                     | 107.0                                 | 14.0                           | 1.0                              |
| 1.5SMCJ60CA  | BGK                 | 60.0                                   | 66.7                          | 73.70        | 1.0                     | 96.8                                  | 15.5                           | 1.0                              |
| 1.5SMCJ64C   | BGL                 | 64.0                                   | 71.1                          | 86.90        | 1.0                     | 114.0                                 | 13.2                           | 1.0                              |
| 1.5SMCJ64CA  | BGM                 | 64.0                                   | 71.1                          | 78.60        | 1.0                     | 103.0                                 | 14.6                           | 1.0                              |
| 1.5SMCJ70C   | BGN                 | 70.0                                   | 77.8                          | 95.10        | 1.0                     | 125.0                                 | 12.0                           | 1.0                              |
| 1.5SMCJ70CA  | BGP                 | 70.0                                   | 77.8                          | 86.10        | 1.0                     | 113.0                                 | 13.3                           | 1.0                              |
| 1.5SMCJ75C   | BGQ                 | 75.0                                   | 83.3                          | 102.00       | 1.0                     | 134.0                                 | 11.2                           | 1.0                              |
| 1.5SMCJ75CA  | BGR                 | 75.0                                   | 83.3                          | 92.10        | 1.0                     | 121.0                                 | 12.4                           | 1.0                              |
| 1.5SMCJ78C   | BGX                 | 78.0                                   | 86.7                          | 106.00       | 1.0                     | 139.0                                 | 10.8                           | 1.0                              |
| 1.5SMCJ78CA  | BGT                 | 78.0                                   | 86.7                          | 95.80        | 1.0                     | 126.0                                 | 11.4                           | 1.0                              |
| 1.5SMCJ85C   | BGU                 | 85.0                                   | 94.4                          | 115.00       | 1.0                     | 151.0                                 | 9.9                            | 1.0                              |
| 1.5SMCJ85CA  | BGV                 | 85.0                                   | 94.4                          | 104.00       | 1.0                     | 137.0                                 | 10.4                           | 1.0                              |
| 1.5SMCJ90C   | BGW                 | 90.0                                   | 100                           | 122.00       | 1.0                     | 160.0                                 | 9.4                            | 1.0                              |
| 1.5SMCJ90CA  | BGX                 | 90.0                                   | 100                           | 111.00       | 1.0                     | 146.0                                 | 10.3                           | 1.0                              |
| 1.5SMCJ100C  | BGY                 | 100.0                                  | 111                           | 136.00       | 1.0                     | 179.0                                 | 8.4                            | 1.0                              |
| 1.5SMCJ100CA | BGZ                 | 100.0                                  | 111                           | 123.00       | 1.0                     | 162.0                                 | 9.3                            | 1.0                              |
| 1.5SMCJ110C  | BHD                 | 110.0                                  | 122                           | 149.00       | 1.0                     | 196.0                                 | 7.7                            | 1.0                              |
| 1.5SMCJ110CA | BHE                 | 110.0                                  | 122                           | 135.00       | 1.0                     | 177.0                                 | 8.4                            | 1.0                              |
| 1.5SMCJ120C  | BHF                 | 120.0                                  | 133                           | 163.00       | 1.0                     | 214.0                                 | 7.0                            | 1.0                              |
| 1.5SMCJ120CA | BHG                 | 120.0                                  | 133                           | 147.00       | 1.0                     | 193.0                                 | 7.9                            | 1.0                              |
| 1.5SMCJ130C  | BHH                 | 130.0                                  | 144                           | 176.00       | 1.0                     | 231.0                                 | 6.5                            | 1.0                              |
| 1.5SMCJ130CA | BHK                 | 130.0                                  | 144                           | 159.00       | 1.0                     | 209.0                                 | 7.2                            | 1.0                              |
| 1.5SMCJ150C  | BHL                 | 150.0                                  | 167                           | 204.00       | 1.0                     | 268.0                                 | 5.6                            | 1.0                              |
| 1.5SMCJ150CA | BHM                 | 150.0                                  | 167                           | 185.00       | 1.0                     | 243.0                                 | 6.2                            | 1.0                              |
| 1.5SMCJ160C  | BHN                 | 160.0                                  | 178                           | 218.00       | 1.0                     | 287.0                                 | 5.2                            | 1.0                              |
| 1.5SMCJ160CA | BHP                 | 160.0                                  | 178                           | 197.00       | 1.0                     | 259.0                                 | 5.8                            | 1.0                              |
| 1.5SMCJ170C  | BHQ                 | 170.0                                  | 189                           | 231.00       | 1.0                     | 304.0                                 | 4.9                            | 1.0                              |
| 1.5SMCJ170CA | BHR                 | 170.0                                  | 189                           | 209.00       | 1.0                     | 275.0                                 | 5.5                            | 1.0                              |



SINLOON®

TVS 瞬態電壓抑制二極管  
Voltage : 5V0 - 170V

1.5SMCJ5.0 - 1.5SMCJ170CA  
1500W Surface Mount Transient Voltage Suppressor

Electrical Characteristics Curve

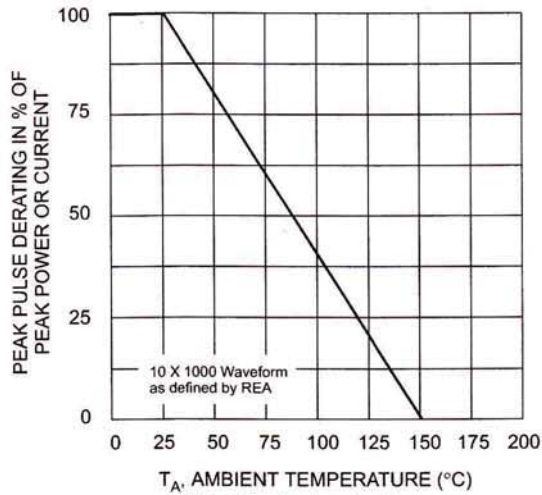


Fig. 1 Pulse Derating Curve

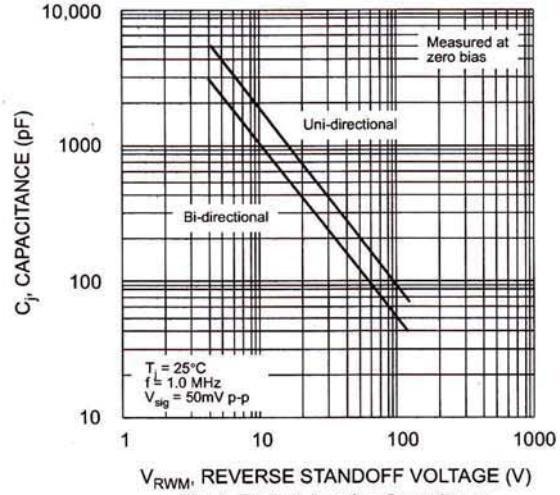


Fig. 2 Typical Junction Capacitance

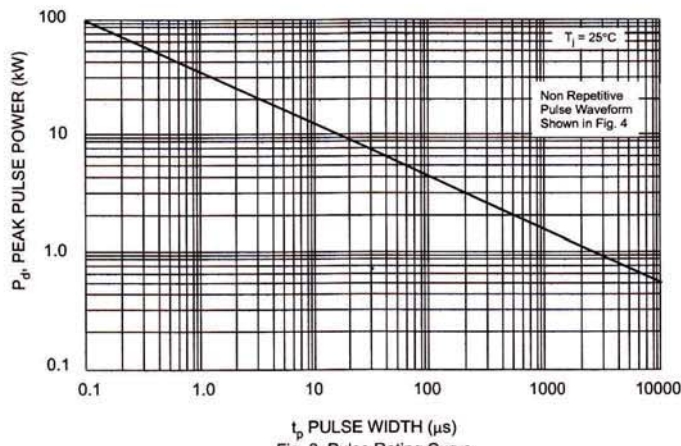


Fig. 3 Pulse Rating Curve

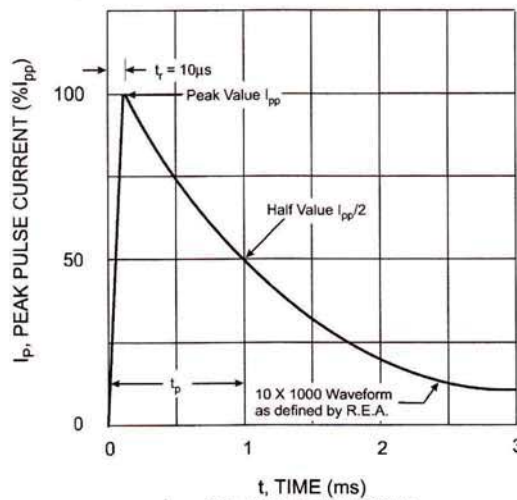


Fig. 4 Pulse Waveform



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**1.5SMCJ5.0 - 1.5SMCJ170CA**  
**1500W Surface Mount Transient Voltage Suppressor**

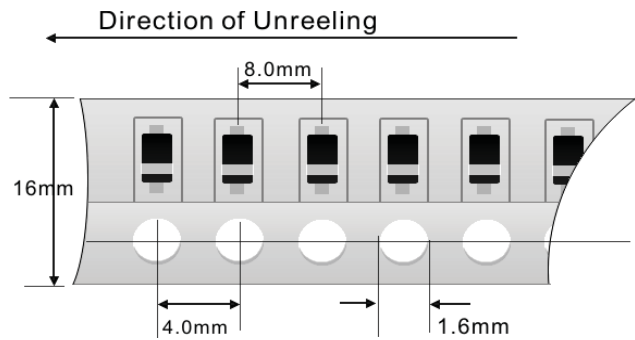
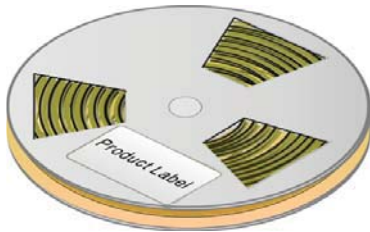
**Packaging Information**

| Dimension Reel Tape | Quantity (Pcs) | Inner Box Size L x W x H | Quantity (Pcs) | Carton Size L x W x H | Quantity (Pcs) | Gross Weight |
|---------------------|----------------|--------------------------|----------------|-----------------------|----------------|--------------|
| 330 mm              | 3,000          | 340 x 337 x 45 mm        | 6,000          | 370 x 370 x 420 mm    | 48,000         | 19.0kg       |

- Note:
1. Paper Reel, White or gray color.
  2. Components are packed in accordance with EIA standard 481- and 481-2
  3. Shipping quantity given is for minimum packing quantity only.
- For minimum order quantity, please consult the Sales Department.

Tape Reel

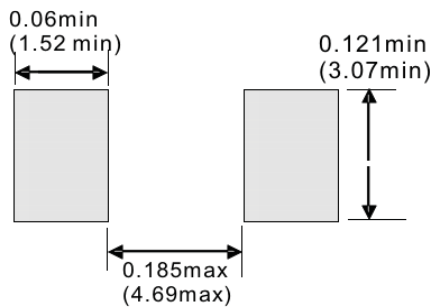
330 x 12mm



Carton:



**Recommended Footprint**



Inched (mm)

**Marking Information**



Cathode: Polarity Band Except Bi-Direction Type  
XXX: Device Code see Marking Code.

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※Mayloon characteristic parameters of electronic product specification changes or updates without notice to improve

