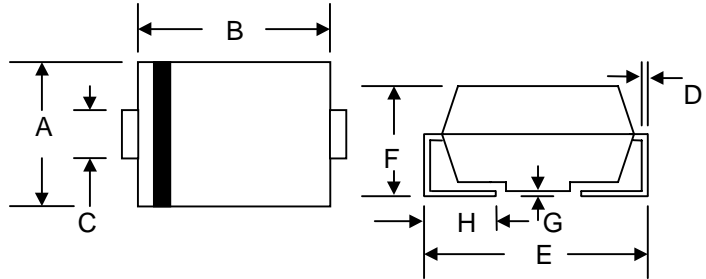


### Features

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



### Mechanical Data

- Case: SMC/DO-214AB, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band Except Bi-Directional
- Marking: Device Code
- Weight: 0.21 grams (approx.)
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 6**

| SMC/DO-214AB         |       |       |
|----------------------|-------|-------|
| Dim                  | Min   | Max   |
| A                    | 5.59  | 6.22  |
| B                    | 6.60  | 7.11  |
| C                    | 2.75  | 3.25  |
| D                    | 0.152 | 0.305 |
| E                    | 7.75  | 8.13  |
| F                    | 2.00  | 2.62  |
| G                    | 0.051 | 0.203 |
| H                    | 0.76  | 1.27  |
| All Dimensions in mm |       |       |

"C" Suffix Designates Bi-directional Devices  
 "A" Suffix Designates 5% Tolerance Devices  
 No Suffix Designates 10% Tolerance Devices

### Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

| Characteristic                                                                                               | Symbol         | Value        | Unit             |
|--------------------------------------------------------------------------------------------------------------|----------------|--------------|------------------|
| Peak Pulse Power Dissipation 10/1000 $\mu\text{s}$ Waveform (Note 1, 2) Figure 3                             | PPPM           | 1500 Minimum | W                |
| Peak Pulse Current on 10/1000 $\mu\text{s}$ Waveform (Note 1) Figure 4                                       | IPPM           | See Table 1  | A                |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method) (Note 2, 3) | IFSM           | 100          | A                |
| Operating and Storage Temperature Range                                                                      | $T_j, T_{STG}$ | -55 to +150  | $^\circ\text{C}$ |

- Note: 1. Non-repetitive current pulse per Figure 4 and derated above  $T_A = 25^\circ\text{C}$  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.

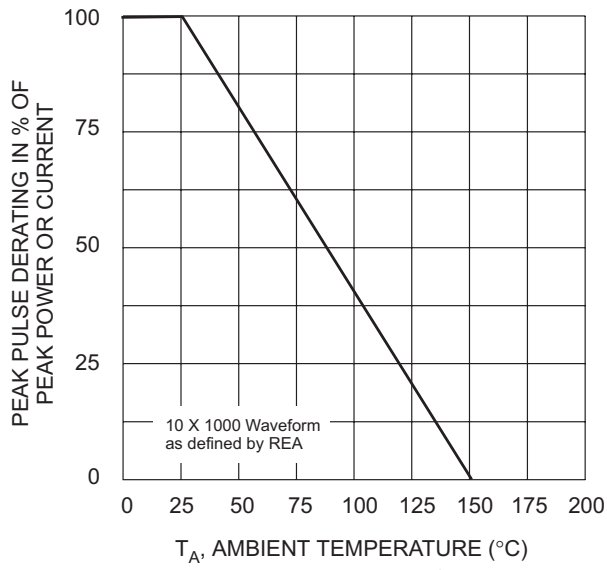


Fig. 1 Pulse Derating Curve

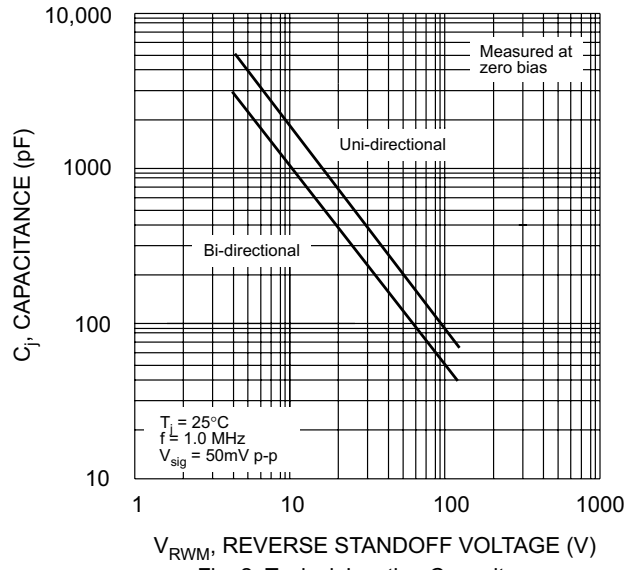


Fig. 2 Typical Junction Capacitance

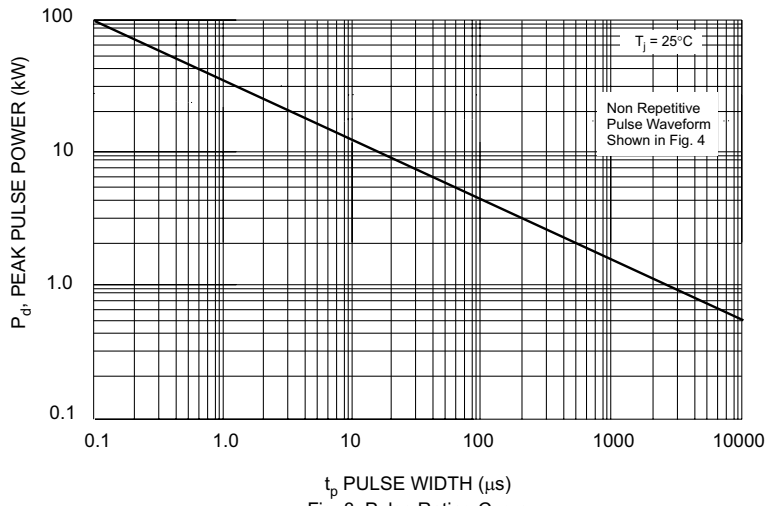


Fig. 3 Pulse Rating Curve

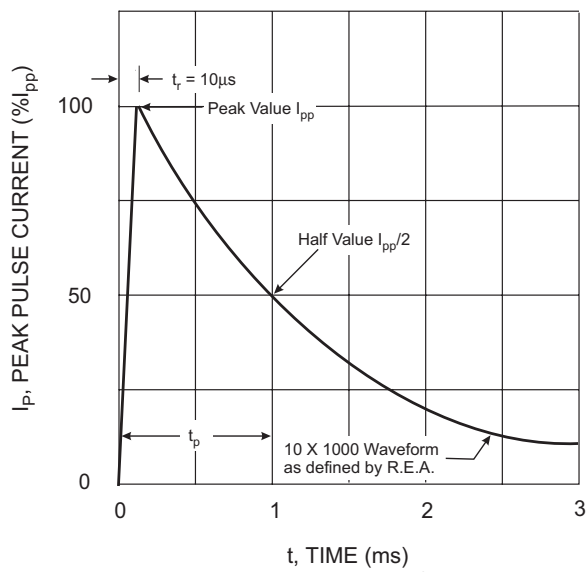


Fig. 4 Pulse Waveform

# UNI-DIRECTIONAL 1500 WATT SURFACE MOUNT TVS

| UNI-DIRECTIONAL PART NO. | DEVICE MARKING CODE | REVERSE STAND-OFF VOLTAGE VRWM (V) | BREAKDOWN VOLTAGE VBR (V) MIN. @IT | BREAKDOWN VOLTAGE VBR (V) MAX. @IT | TEST CURRENT IT (mA) | MAXIMUM CLAMPING VOLTAGE @Ipp Vc (V) | PEAK PULSE CURRENT Ipp (A) | REVERSE LEAKAGE @VRWM IR (uA) |
|--------------------------|---------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--------------------------------------|----------------------------|-------------------------------|
| 1.5SMCJ5.0               | GDD                 | 5.00                               | 6.40                               | 7.55                               | 10                   | 9.6                                  | 156.2                      | 1000                          |
| 1.5SMCJ5.0A              | GDE                 | 5.00                               | 6.40                               | 7.25                               | 10                   | 9.2                                  | 163.0                      | 1000                          |
| 1.5SMCJ6.0               | GDF                 | 6.00                               | 6.67                               | 8.45                               | 10                   | 11.4                                 | 131.6                      | 1000                          |
| 1.5SMCJ6.0A              | GDG                 | 6.00                               | 6.67                               | 7.67                               | 10                   | 10.3                                 | 145.6                      | 1000                          |
| 1.5SMCJ6.5               | GDH                 | 6.50                               | 7.22                               | 9.14                               | 10                   | 12.3                                 | 122.0                      | 500                           |
| 1.5SMCJ6.5A              | GDK                 | 6.50                               | 7.22                               | 8.30                               | 10                   | 11.2                                 | 133.9                      | 500                           |
| 1.5SMCJ7.0               | GDL                 | 7.00                               | 7.78                               | 9.86                               | 10                   | 13.3                                 | 112.8                      | 200                           |
| 1.5SMCJ7.0A              | GDM                 | 7.00                               | 7.78                               | 8.95                               | 10                   | 12.0                                 | 125.0                      | 200                           |
| 1.5SMCJ7.5               | GDN                 | 7.50                               | 8.33                               | 10.67                              | 1                    | 14.3                                 | 104.9                      | 100                           |
| 1.5SMCJ7.5A              | GDP                 | 7.50                               | 8.33                               | 9.58                               | 1                    | 12.9                                 | 116.3                      | 100                           |
| 1.5SMCJ8.0               | GDO                 | 8.00                               | 8.99                               | 11.30                              | 1                    | 15.0                                 | 100.0                      | 50                            |
| 1.5SMCJ8.0A              | GDR                 | 8.00                               | 8.99                               | 10.23                              | 1                    | 13.6                                 | 110.3                      | 50                            |
| 1.5SMCJ8.5               | GDS                 | 8.50                               | 9.44                               | 11.92                              | 1                    | 15.9                                 | 94.3                       | 25                            |
| 1.5SMCJ8.5A              | GDT                 | 8.50                               | 9.44                               | 10.82                              | 1                    | 14.4                                 | 104.2                      | 25                            |
| 1.5SMCJ9.0               | GDU                 | 9.00                               | 10.00                              | 12.60                              | 1                    | 16.9                                 | 88.7                       | 10                            |
| 1.5SMCJ9.0A              | GDV                 | 9.00                               | 10.00                              | 11.50                              | 1                    | 15.4                                 | 97.4                       | 10                            |
| 1.5SMCJ10                | GDW                 | 10.00                              | 11.10                              | 14.10                              | 1                    | 18.8                                 | 79.8                       | 5                             |
| 1.5SMCJ10A               | GDX                 | 10.00                              | 11.10                              | 12.80                              | 1                    | 17.0                                 | 88.2                       | 5                             |
| 1.5SMCJ11                | GDY                 | 11.00                              | 12.20                              | 15.40                              | 1                    | 20.1                                 | 74.6                       | 5                             |
| 1.5SMCJ11A               | GDZ                 | 11.00                              | 12.20                              | 14.00                              | 1                    | 18.2                                 | 82.4                       | 5                             |
| 1.5SMCJ12                | GED                 | 12.00                              | 13.30                              | 16.90                              | 1                    | 22.0                                 | 68.2                       | 5                             |
| 1.5SMCJ12A               | GEE                 | 12.00                              | 13.30                              | 15.30                              | 1                    | 19.9                                 | 75.3                       | 5                             |
| 1.5SMCJ13                | GEF                 | 13.00                              | 14.40                              | 18.20                              | 1                    | 23.8                                 | 63.0                       | 1                             |
| 1.5SMCJ13A               | GEH                 | 13.00                              | 14.40                              | 16.50                              | 1                    | 21.5                                 | 69.7                       | 1                             |
| 1.5SMCJ14                | GEH                 | 14.00                              | 15.60                              | 19.80                              | 1                    | 25.8                                 | 58.1                       | 1                             |
| 1.5SMCJ14A               | GEK                 | 14.00                              | 15.60                              | 17.90                              | 1                    | 23.2                                 | 64.7                       | 1                             |
| 1.5SMCJ15                | GEL                 | 15.00                              | 16.70                              | 21.10                              | 1                    | 26.9                                 | 55.8                       | 1                             |
| 1.5SMCJ15A               | GEM                 | 15.00                              | 16.70                              | 19.20                              | 1                    | 24.4                                 | 61.5                       | 1                             |
| 1.5SMCJ16                | GEN                 | 16.00                              | 17.80                              | 22.60                              | 1                    | 28.8                                 | 52.1                       | 1                             |
| 1.5SMCJ16A               | GEP                 | 16.00                              | 17.80                              | 20.50                              | 1                    | 26.0                                 | 57.7                       | 1                             |
| 1.5SMCJ17                | GEQ                 | 17.00                              | 18.90                              | 23.90                              | 1                    | 30.5                                 | 49.2                       | 1                             |
| 1.5SMCJ17A               | GER                 | 17.00                              | 18.90                              | 21.70                              | 1                    | 27.6                                 | 53.3                       | 1                             |
| 1.5SMCJ18                | GES                 | 18.00                              | 20.00                              | 25.30                              | 1                    | 32.2                                 | 46.6                       | 1                             |
| 1.5SMCJ18A               | GET                 | 18.00                              | 20.00                              | 23.30                              | 1                    | 29.2                                 | 51.4                       | 1                             |
| 1.5SMCJ20                | GEU                 | 20.00                              | 22.20                              | 28.10                              | 1                    | 35.8                                 | 41.9                       | 1                             |
| 1.5SMCJ20A               | GEV                 | 20.00                              | 22.20                              | 25.50                              | 1                    | 32.4                                 | 46.3                       | 1                             |
| 1.5SMCJ22                | GEW                 | 22.00                              | 24.40                              | 30.90                              | 1                    | 39.4                                 | 38.1                       | 1                             |
| 1.5SMCJ22A               | GEX                 | 22.00                              | 24.40                              | 28.00                              | 1                    | 35.5                                 | 42.2                       | 1                             |
| 1.5SMCJ24                | GEY                 | 24.00                              | 26.70                              | 33.80                              | 1                    | 43.0                                 | 34.9                       | 1                             |
| 1.5SMCJ24A               | GEZ                 | 24.00                              | 26.70                              | 30.70                              | 1                    | 38.9                                 | 38.6                       | 1                             |
| 1.5SMCJ26                | GFD                 | 26.00                              | 28.90                              | 36.60                              | 1                    | 46.6                                 | 32.2                       | 1                             |
| 1.5SMCJ26A               | GFE                 | 26.00                              | 28.90                              | 33.20                              | 1                    | 42.1                                 | 35.6                       | 1                             |
| 1.5SMCJ28                | GFF                 | 28.00                              | 31.10                              | 39.40                              | 1                    | 50.0                                 | 30.0                       | 1                             |
| 1.5SMCJ28A               | GFG                 | 28.00                              | 31.10                              | 35.80                              | 1                    | 45.4                                 | 33.0                       | 1                             |
| 1.5SMCJ30                | GFH                 | 30.00                              | 33.30                              | 42.20                              | 1                    | 53.5                                 | 28.0                       | 1                             |
| 1.5SMCJ30A               | GFK                 | 30.00                              | 33.30                              | 38.30                              | 1                    | 48.4                                 | 31.0                       | 1                             |
| 1.5SMCJ33                | GFL                 | 33.00                              | 36.70                              | 46.50                              | 1                    | 59.0                                 | 25.2                       | 1                             |
| 1.5SMCJ33A               | GFM                 | 33.00                              | 36.70                              | 42.20                              | 1                    | 53.3                                 | 28.1                       | 1                             |
| 1.5SMCJ36                | GFN                 | 36.00                              | 40.00                              | 50.70                              | 1                    | 64.3                                 | 23.3                       | 1                             |
| 1.5SMCJ36A               | GFP                 | 36.00                              | 40.00                              | 46.00                              | 1                    | 58.1                                 | 25.8                       | 1                             |
| 1.5SMCJ40                | GFQ                 | 40.00                              | 44.40                              | 56.30                              | 1                    | 71.4                                 | 21.0                       | 1                             |
| 1.5SMCJ40A               | GFR                 | 40.00                              | 44.40                              | 51.10                              | 1                    | 64.5                                 | 23.2                       | 1                             |
| 1.5SMCJ43                | GFs                 | 43.00                              | 47.80                              | 60.50                              | 1                    | 76.7                                 | 19.6                       | 1                             |
| 1.5SMCJ43A               | GFT                 | 43.00                              | 47.80                              | 54.90                              | 1                    | 69.4                                 | 21.6                       | 1                             |
| 1.5SMCJ45                | GFU                 | 45.00                              | 50.00                              | 63.30                              | 1                    | 80.3                                 | 18.7                       | 1                             |
| 1.5SMCJ45A               | GFV                 | 45.00                              | 50.00                              | 57.50                              | 1                    | 72.7                                 | 20.6                       | 1                             |
| 1.5SMCJ48                | GFW                 | 48.00                              | 53.30                              | 67.50                              | 1                    | 85.5                                 | 17.5                       | 1                             |
| 1.5SMCJ48A               | GFx                 | 48.00                              | 53.30                              | 61.30                              | 1                    | 77.4                                 | 19.4                       | 1                             |
| 1.5SMCJ51                | GFY                 | 51.00                              | 56.70                              | 71.80                              | 1                    | 91.1                                 | 18.5                       | 1                             |
| 1.5SMCJ51A               | GFZ                 | 51.00                              | 56.70                              | 65.20                              | 1                    | 82.4                                 | 18.2                       | 1                             |
| 1.5SMCJ54                | GGD                 | 54.00                              | 60.00                              | 76.00                              | 1                    | 96.3                                 | 15.6                       | 1                             |
| 1.5SMCJ54A               | GGE                 | 54.00                              | 60.00                              | 69.00                              | 1                    | 87.1                                 | 17.2                       | 1                             |
| 1.5SMCJ58                | GGF                 | 58.00                              | 64.40                              | 81.60                              | 1                    | 103.0                                | 14.6                       | 1                             |
| 1.5SMCJ58A               | GGG                 | 58.00                              | 64.40                              | 74.10                              | 1                    | 93.6                                 | 16.0                       | 1                             |
| 1.5SMCJ60                | GGH                 | 60.00                              | 66.70                              | 84.50                              | 1                    | 107.0                                | 14.0                       | 1                             |
| 1.5SMCJ60A               | GGK                 | 60.00                              | 66.70                              | 76.70                              | 1                    | 96.8                                 | 15.5                       | 1                             |
| 1.5SMCJ64                | GGL                 | 64.00                              | 71.10                              | 90.10                              | 1                    | 114.0                                | 13.2                       | 1                             |
| 1.5SMCJ64A               | GGM                 | 64.00                              | 71.10                              | 81.80                              | 1                    | 103.0                                | 14.6                       | 1                             |
| 1.5SMCJ70                | GGN                 | 70.00                              | 77.80                              | 98.60                              | 1                    | 125.0                                | 12.0                       | 1                             |
| 1.5SMCJ70A               | GGP                 | 70.00                              | 77.80                              | 89.50                              | 1                    | 113.0                                | 13.3                       | 1                             |
| 1.5SMCJ75                | GGQ                 | 75.00                              | 83.30                              | 105.70                             | 1                    | 134.0                                | 11.2                       | 1                             |
| 1.5SMCJ75A               | GGR                 | 75.00                              | 83.30                              | 95.80                              | 1                    | 121.0                                | 12.4                       | 1                             |
| 1.5SMCJ78                | GGs                 | 78.00                              | 86.70                              | 109.80                             | 1                    | 139.0                                | 10.8                       | 1                             |
| 1.5SMCJ78A               | GGT                 | 78.00                              | 86.70                              | 99.70                              | 1                    | 126.0                                | 11.4                       | 1                             |
| 1.5SMCJ85                | GGU                 | 85.00                              | 94.40                              | 119.20                             | 1                    | 151.0                                | 9.9                        | 1                             |
| 1.5SMCJ85A               | GGV                 | 85.00                              | 94.40                              | 108.20                             | 1                    | 137.0                                | 10.4                       | 1                             |
| 1.5SMCJ90                | GGW                 | 90.00                              | 100.00                             | 126.50                             | 1                    | 160.0                                | 9.4                        | 1                             |
| 1.5SMCJ90A               | GGX                 | 90.00                              | 100.00                             | 115.50                             | 1                    | 146.0                                | 10.3                       | 1                             |
| 1.5SMCJ100               | GGY                 | 100.00                             | 111.00                             | 141.00                             | 1                    | 179.0                                | 8.4                        | 1                             |
| 1.5SMCJ100A              | GGZ                 | 100.00                             | 111.00                             | 128.00                             | 1                    | 162.0                                | 9.3                        | 1                             |
| 1.5SMCJ110               | GHD                 | 110.00                             | 122.00                             | 154.50                             | 1                    | 196.0                                | 7.7                        | 1                             |
| 1.5SMCJ110A              | GHE                 | 110.00                             | 122.00                             | 140.50                             | 1                    | 177.0                                | 8.4                        | 1                             |
| 1.5SMCJ120               | GHF                 | 120.00                             | 133.00                             | 169.00                             | 1                    | 214.0                                | 7.0                        | 1                             |
| 1.5SMCJ120A              | GHG                 | 120.00                             | 133.00                             | 153.00                             | 1                    | 193.0                                | 7.9                        | 1                             |
| 1.5SMCJ130               | GHH                 | 130.00                             | 144.00                             | 182.50                             | 1                    | 231.0                                | 6.5                        | 1                             |
| 1.5SMCJ130A              | GHK                 | 130.00                             | 144.00                             | 165.50                             | 1                    | 209.0                                | 7.2                        | 1                             |
| 1.5SMCJ150               | GHL                 | 150.00                             | 167.00                             | 211.50                             | 1                    | 268.0                                | 5.6                        | 1                             |
| 1.5SMCJ150A              | GHM                 | 150.00                             | 167.00                             | 192.50                             | 1                    | 243.0                                | 6.2                        | 1                             |
| 1.5SMCJ160               | GHN                 | 160.00                             | 178.00                             | 226.00                             | 1                    | 287.0                                | 5.2                        | 1                             |
| 1.5SMCJ160A              | GHP                 | 160.00                             | 178.00                             | 205.00                             | 1                    | 259.0                                | 5.8                        | 1                             |
| 1.5SMCJ170               | GHQ                 | 170.00                             | 189.00                             | 239.50                             | 1                    | 304.0                                | 4.9                        | 1                             |
| 1.5SMCJ170A              | GHR                 | 170.00                             | 189.00                             | 217.50                             | 1                    | 275.0                                | 5.5                        | 1                             |

## BI-DIRECTIONAL 1500 WATT SURFACE MOUNT TVS

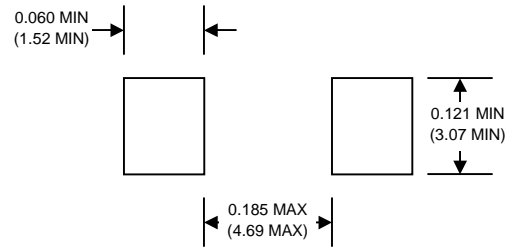
| BI-DIRECTIONAL PART NO. | DEVICE MARKING CODE | REVERSE STAND-OFF VOLTAGE VRWM (V) | BREAKDOWN VOLTAGE VBR (V) MIN. @IT | BREAKDOWN VOLTAGE VBR (V) MAX. @IT | TEST CURRENT IT (mA) | MAXIMUM CLAMPING VOLTAGE @Ipp Vc (V) | PEAK PULSE CURRENT Ipp (A) | REVERSE LEAKAGE @VRWM IR (uA) |
|-------------------------|---------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--------------------------------------|----------------------------|-------------------------------|
| 1.5SMCJ5.0C             | BDD                 | 5.00                               | 6.40                               | 7.55                               | 10                   | 9.6                                  | 156.2                      | 2000                          |
| 1.5SMCJ5.0CA            | BDE                 | 5.00                               | 6.40                               | 7.25                               | 10                   | 9.2                                  | 163.0                      | 2000                          |
| 1.5SMCJ6.0C             | BDF                 | 6.00                               | 6.67                               | 8.45                               | 10                   | 11.4                                 | 131.6                      | 2000                          |
| 1.5SMCJ6.0CA            | BDG                 | 6.00                               | 6.67                               | 7.67                               | 10                   | 10.3                                 | 145.6                      | 2000                          |
| 1.5SMCJ6.5C             | BDH                 | 6.50                               | 7.22                               | 9.14                               | 10                   | 12.3                                 | 122.0                      | 1000                          |
| 1.5SMCJ6.5CA            | BDK                 | 6.50                               | 7.22                               | 8.30                               | 10                   | 11.2                                 | 133.9                      | 1000                          |
| 1.5SMCJ7.0C             | BDL                 | 7.00                               | 7.78                               | 9.86                               | 10                   | 13.3                                 | 112.8                      | 400                           |
| 1.5SMCJ7.0CA            | BDM                 | 7.00                               | 7.78                               | 8.95                               | 10                   | 12.0                                 | 125.0                      | 400                           |
| 1.5SMCJ7.5C             | BDN                 | 7.50                               | 8.33                               | 10.67                              | 1                    | 14.3                                 | 104.9                      | 200                           |
| 1.5SMCJ7.5CA            | BDP                 | 7.50                               | 8.33                               | 9.58                               | 1                    | 12.9                                 | 116.3                      | 200                           |
| 1.5SMCJ8.0C             | BDQ                 | 8.00                               | 8.99                               | 11.30                              | 1                    | 15.0                                 | 100.0                      | 100                           |
| 1.5SMCJ8.0CA            | BDR                 | 8.00                               | 8.99                               | 10.23                              | 1                    | 13.6                                 | 110.3                      | 100                           |
| 1.5SMCJ8.5C             | BDS                 | 8.50                               | 9.44                               | 11.92                              | 1                    | 15.9                                 | 94.3                       | 50                            |
| 1.5SMCJ8.5CA            | BDT                 | 8.50                               | 9.44                               | 10.82                              | 1                    | 14.4                                 | 104.2                      | 50                            |
| 1.5SMCJ9.0C             | BDU                 | 9.00                               | 10.00                              | 12.60                              | 1                    | 16.9                                 | 88.7                       | 20                            |
| 1.5SMCJ9.0CA            | BDV                 | 9.00                               | 10.00                              | 11.50                              | 1                    | 15.4                                 | 97.4                       | 20                            |
| 1.5SMCJ10C              | BDW                 | 10.00                              | 11.10                              | 14.10                              | 1                    | 18.8                                 | 79.8                       | 5                             |
| 1.5SMCJ10CA             | BDX                 | 10.00                              | 11.10                              | 12.80                              | 1                    | 17.0                                 | 88.2                       | 5                             |
| 1.5SMCJ11C              | BDY                 | 11.00                              | 12.20                              | 15.40                              | 1                    | 20.1                                 | 74.6                       | 5                             |
| 1.5SMCJ11CA             | BDZ                 | 11.00                              | 12.20                              | 14.00                              | 1                    | 18.2                                 | 82.4                       | 5                             |
| 1.5SMCJ12C              | BED                 | 12.00                              | 13.30                              | 16.90                              | 1                    | 22.0                                 | 68.2                       | 5                             |
| 1.5SMCJ12CA             | BEE                 | 12.00                              | 13.30                              | 15.30                              | 1                    | 19.9                                 | 75.3                       | 5                             |
| 1.5SMCJ13C              | BEF                 | 13.00                              | 14.40                              | 18.20                              | 1                    | 23.8                                 | 63.0                       | 1                             |
| 1.5SMCJ13CA             | BEG                 | 13.00                              | 14.40                              | 16.50                              | 1                    | 21.5                                 | 69.7                       | 1                             |
| 1.5SMCJ14C              | BEH                 | 14.00                              | 15.60                              | 19.80                              | 1                    | 25.8                                 | 58.1                       | 1                             |
| 1.5SMCJ14CA             | BEK                 | 14.00                              | 15.60                              | 17.90                              | 1                    | 23.2                                 | 64.7                       | 1                             |
| 1.5SMCJ15C              | BEL                 | 15.00                              | 16.70                              | 21.10                              | 1                    | 26.9                                 | 55.8                       | 1                             |
| 1.5SMCJ15CA             | BEM                 | 15.00                              | 16.70                              | 19.20                              | 1                    | 24.4                                 | 61.5                       | 1                             |
| 1.5SMCJ16C              | BEN                 | 16.00                              | 17.80                              | 22.60                              | 1                    | 28.8                                 | 52.1                       | 1                             |
| 1.5SMCJ16CA             | BEP                 | 16.00                              | 17.80                              | 20.50                              | 1                    | 26.0                                 | 57.7                       | 1                             |
| 1.5SMCJ17C              | BEQ                 | 17.00                              | 18.90                              | 23.90                              | 1                    | 30.5                                 | 49.2                       | 1                             |
| 1.5SMCJ17CA             | BER                 | 17.00                              | 18.90                              | 21.70                              | 1                    | 27.6                                 | 53.3                       | 1                             |
| 1.5SMCJ18C              | BES                 | 18.00                              | 20.00                              | 25.30                              | 1                    | 32.2                                 | 46.6                       | 1                             |
| 1.5SMCJ18CA             | BET                 | 18.00                              | 20.00                              | 23.30                              | 1                    | 29.2                                 | 51.4                       | 1                             |
| 1.5SMCJ20C              | BEU                 | 20.00                              | 22.20                              | 28.10                              | 1                    | 35.8                                 | 41.9                       | 1                             |
| 1.5SMCJ20CA             | BEV                 | 20.00                              | 22.20                              | 25.50                              | 1                    | 32.4                                 | 46.3                       | 1                             |
| 1.5SMCJ22C              | BEW                 | 22.00                              | 24.40                              | 30.90                              | 1                    | 39.4                                 | 38.1                       | 1                             |
| 1.5SMCJ22CA             | BEX                 | 22.00                              | 24.40                              | 28.00                              | 1                    | 35.5                                 | 42.2                       | 1                             |
| 1.5SMCJ24C              | BEY                 | 24.00                              | 26.70                              | 33.80                              | 1                    | 43.0                                 | 34.9                       | 1                             |
| 1.5SMCJ24CA             | BEZ                 | 24.00                              | 26.70                              | 30.70                              | 1                    | 38.9                                 | 38.6                       | 1                             |
| 1.5SMCJ26C              | BFD                 | 26.00                              | 28.90                              | 36.60                              | 1                    | 46.6                                 | 32.2                       | 1                             |
| 1.5SMCJ26CA             | BFE                 | 26.00                              | 28.90                              | 33.20                              | 1                    | 42.1                                 | 35.6                       | 1                             |
| 1.5SMCJ28C              | BFF                 | 28.00                              | 31.10                              | 39.40                              | 1                    | 50.0                                 | 30.0                       | 1                             |
| 1.5SMCJ28CA             | BFG                 | 28.00                              | 31.10                              | 35.80                              | 1                    | 45.4                                 | 33.0                       | 1                             |
| 1.5SMCJ30C              | BFH                 | 30.00                              | 33.30                              | 42.20                              | 1                    | 53.5                                 | 28.0                       | 1                             |
| 1.5SMCJ30CA             | BFK                 | 30.00                              | 33.30                              | 38.30                              | 1                    | 48.4                                 | 31.0                       | 1                             |
| 1.5SMCJ33C              | BFL                 | 33.00                              | 36.70                              | 46.50                              | 1                    | 59.0                                 | 25.2                       | 1                             |
| 1.5SMCJ33CA             | BFM                 | 33.00                              | 36.70                              | 42.20                              | 1                    | 53.3                                 | 28.1                       | 1                             |
| 1.5SMCJ36C              | BFN                 | 36.00                              | 40.00                              | 50.70                              | 1                    | 64.3                                 | 23.3                       | 1                             |
| 1.5SMCJ36CA             | BFP                 | 36.00                              | 40.00                              | 46.00                              | 1                    | 58.1                                 | 25.8                       | 1                             |
| 1.5SMCJ40C              | BFQ                 | 40.00                              | 44.40                              | 56.30                              | 1                    | 71.4                                 | 21.0                       | 1                             |
| 1.5SMCJ40CA             | BFR                 | 40.00                              | 44.40                              | 51.10                              | 1                    | 64.5                                 | 23.2                       | 1                             |
| 1.5SMCJ43C              | BFS                 | 43.00                              | 47.80                              | 60.50                              | 1                    | 76.7                                 | 19.6                       | 1                             |
| 1.5SMCJ43CA             | BFT                 | 43.00                              | 47.80                              | 54.90                              | 1                    | 69.4                                 | 21.6                       | 1                             |
| 1.5SMCJ45C              | BFU                 | 45.00                              | 50.00                              | 63.30                              | 1                    | 80.3                                 | 18.7                       | 1                             |
| 1.5SMCJ45CA             | BFV                 | 45.00                              | 50.00                              | 57.50                              | 1                    | 72.7                                 | 20.6                       | 1                             |
| 1.5SMCJ48C              | BFW                 | 48.00                              | 53.30                              | 67.50                              | 1                    | 85.5                                 | 17.5                       | 1                             |
| 1.5SMCJ48CA             | BFX                 | 48.00                              | 53.30                              | 61.30                              | 1                    | 77.4                                 | 19.4                       | 1                             |
| 1.5SMCJ51C              | BFY                 | 51.00                              | 56.70                              | 71.80                              | 1                    | 91.1                                 | 18.5                       | 1                             |
| 1.5SMCJ51CA             | BFZ                 | 51.00                              | 56.70                              | 65.20                              | 1                    | 82.4                                 | 18.2                       | 1                             |
| 1.5SMCJ54C              | BGD                 | 54.00                              | 60.00                              | 76.00                              | 1                    | 96.3                                 | 15.6                       | 1                             |
| 1.5SMCJ54CA             | BGE                 | 54.00                              | 60.00                              | 69.00                              | 1                    | 87.1                                 | 17.2                       | 1                             |
| 1.5SMCJ58C              | BGF                 | 58.00                              | 64.40                              | 81.60                              | 1                    | 103.0                                | 14.6                       | 1                             |
| 1.5SMCJ58CA             | BGG                 | 58.00                              | 64.40                              | 74.10                              | 1                    | 93.6                                 | 16.0                       | 1                             |
| 1.5SMCJ60C              | BGH                 | 60.00                              | 66.70                              | 84.50                              | 1                    | 107.0                                | 14.0                       | 1                             |
| 1.5SMCJ60CA             | BGK                 | 60.00                              | 66.70                              | 76.70                              | 1                    | 96.8                                 | 15.5                       | 1                             |
| 1.5SMCJ64C              | BGL                 | 64.00                              | 71.10                              | 90.10                              | 1                    | 114.0                                | 13.2                       | 1                             |
| 1.5SMCJ64CA             | BGM                 | 64.00                              | 71.10                              | 81.80                              | 1                    | 103.0                                | 14.6                       | 1                             |
| 1.5SMCJ70C              | BGN                 | 70.00                              | 77.80                              | 98.60                              | 1                    | 125.0                                | 12.0                       | 1                             |
| 1.5SMCJ70CA             | BGP                 | 70.00                              | 77.80                              | 89.50                              | 1                    | 113.0                                | 13.3                       | 1                             |
| 1.5SMCJ75C              | BGQ                 | 75.00                              | 83.30                              | 105.70                             | 1                    | 134.0                                | 11.2                       | 1                             |
| 1.5SMCJ75CA             | BGR                 | 75.00                              | 83.30                              | 95.80                              | 1                    | 121.0                                | 12.4                       | 1                             |
| 1.5SMCJ78C              | BGS                 | 78.00                              | 86.70                              | 109.80                             | 1                    | 139.0                                | 10.8                       | 1                             |
| 1.5SMCJ78CA             | BGT                 | 78.00                              | 86.70                              | 99.70                              | 1                    | 126.0                                | 11.4                       | 1                             |
| 1.5SMCJ85C              | BGU                 | 85.00                              | 94.40                              | 119.20                             | 1                    | 151.0                                | 9.9                        | 1                             |
| 1.5SMCJ85CA             | BGV                 | 85.00                              | 94.40                              | 108.20                             | 1                    | 137.0                                | 10.4                       | 1                             |
| 1.5SMCJ90C              | BGW                 | 90.00                              | 100.00                             | 126.50                             | 1                    | 160.0                                | 9.4                        | 1                             |
| 1.5SMCJ90CA             | BGX                 | 90.00                              | 100.00                             | 115.50                             | 1                    | 146.0                                | 10.3                       | 1                             |
| 1.5SMCJ100C             | BGY                 | 100.00                             | 111.00                             | 141.00                             | 1                    | 179.0                                | 8.4                        | 1                             |
| 1.5SMCJ100CA            | BGZ                 | 100.00                             | 111.00                             | 128.00                             | 1                    | 162.0                                | 9.3                        | 1                             |
| 1.5SMCJ110C             | BHD                 | 110.00                             | 122.00                             | 154.50                             | 1                    | 196.0                                | 7.7                        | 1                             |
| 1.5SMCJ110CA            | BHE                 | 110.00                             | 122.00                             | 140.50                             | 1                    | 177.0                                | 8.4                        | 1                             |
| 1.5SMCJ120C             | BHF                 | 120.00                             | 133.00                             | 169.00                             | 1                    | 214.0                                | 7.0                        | 1                             |
| 1.5SMCJ120CA            | BHG                 | 120.00                             | 133.00                             | 153.00                             | 1                    | 193.0                                | 7.9                        | 1                             |
| 1.5SMCJ130C             | BHH                 | 130.00                             | 144.00                             | 182.50                             | 1                    | 231.0                                | 6.5                        | 1                             |
| 1.5SMCJ130CA            | BHK                 | 130.00                             | 144.00                             | 165.50                             | 1                    | 209.0                                | 7.2                        | 1                             |
| 1.5SMCJ150C             | BHL                 | 150.00                             | 167.00                             | 211.50                             | 1                    | 268.0                                | 5.6                        | 1                             |
| 1.5SMCJ150CA            | BHM                 | 150.00                             | 167.00                             | 192.50                             | 1                    | 243.0                                | 6.2                        | 1                             |
| 1.5SMCJ160C             | BHN                 | 160.00                             | 178.00                             | 226.00                             | 1                    | 287.0                                | 5.2                        | 1                             |
| 1.5SMCJ160CA            | BHP                 | 160.00                             | 178.00                             | 205.00                             | 1                    | 259.0                                | 5.8                        | 1                             |
| 1.5SMCJ170C             | BHQ                 | 170.00                             | 189.00                             | 239.50                             | 1                    | 304.0                                | 4.9                        | 1                             |
| 1.5SMCJ170CA            | BHR                 | 170.00                             | 189.00                             | 217.50                             | 1                    | 275.0                                | 5.5                        | 1                             |

## MARKING INFORMATION



Cathode = Polarity Band Except Bi-Directional Types  
 WTE = Manufacturer's Logo  
 xxx = Device Code, See Page 3 & 4

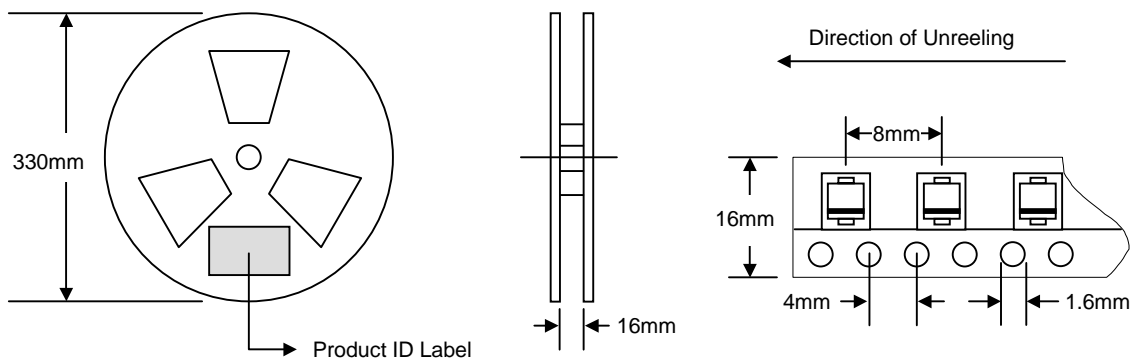
## RECOMMENDED FOOTPRINT



inches(mm)

## PACKAGING INFORMATION

### TAPE & REEL



| Reel Diameter (mm) | Quantity (PCS) | Inner Box Size L x W x H (mm) | Quantity (PCS) | Carton Size L x W x H (mm) | Quantity (PCS) | Approx. Gross Weight (KG) |
|--------------------|----------------|-------------------------------|----------------|----------------------------|----------------|---------------------------|
| 330                | 3,000          | 340 x 337 x 45                | 6,000          | 370 x 370 x 420            | 48,000         | 19.0                      |

**Note:** 1. Paper reel, white or gray color.  
 2. Components are packed in accordance with EIA standard 481-1 and 481-2.

## ORDERING INFORMATION

| Product No.  | Package Type | Shipping Quantity |
|--------------|--------------|-------------------|
| 1.5SMCJxx-T3 | SMC          | 3000/Tape & Reel  |

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **To order RoHS / Lead Free version, add "-LF" suffix to part number above. For example, 1.5SMCJ5.0-T3-LF.**

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**WARNING:** DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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