



## 3.DATA SHEET

### 3.0SMCJ SERIES

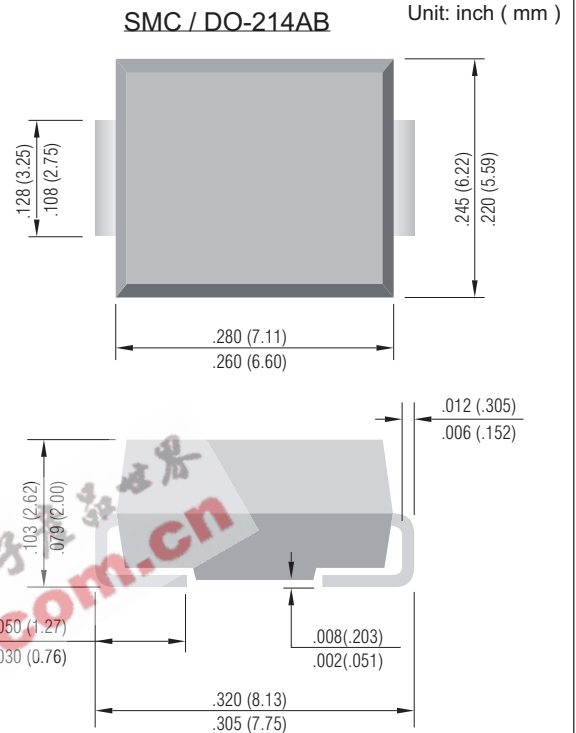
**SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR**  
**VOLTAGE - 5.0 to 220 Volts 3000 Watt Peak Power Pulse**

#### FEATURES

- For surface mounted applications in order to optimize board space.
- Low profile package
- Built-in strain relief
- Glass passivated junction
- Excellent clamping capability
- Low inductance
- Fast response time: typically less than 1.0 ps from 0 volts to BV min
- Typical IR less than 1μA above 10V
- High temperature soldering : 250°C/10 seconds at terminals.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O

#### MECHANICAL DATA

Case: JEDEC DO-214AB, Molded plastic over passivated junction  
Terminals: Solder plated , solderable per MIL-STD-750, Method 2026  
Polarity: Color band denotes positive end ( cathode) except Bidirectional.  
Standard Packageing: 16mm tape per (EIA-481)  
Weight: 0.007 ounces, 0.21 gram



#### MAXIMUM RATINGS AND CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.  
For Capacitive load derate current by 20%.

| RATING   | SYMBOL         | VALUE        | UNITS |
|--|----------------|--------------|-------|
| Peak Power Dissipation at $T_A=25^\circ\text{C}$ , $T_P=1\text{ms}$ (Note 1,2 ,Fig.1 )       | $P_{PPM}$      | Minimum 1500 | Watts |
| Peak Forward Surge Current,8.3ms single half sine-wave superimposed on rated load (Note 2,3) | $I_{FSM}$      | 100.0        | Amps  |
| Peak Pulse Current Current on 10/1000μs waveform(Note 1, Fig.3 )                             | $I_{PPM}$      | See Table 1  | Amps  |
| Operating and Storage Temperature Range  | $T_J, T_{STG}$ | -55 to +150  | °C    |

#### NOTES:

- 1.Non-repetitive current pulse, per Fig. 3 and derated above  $T_A=25^\circ\text{C}$  per Fig. 2.
- 2.Mounted on 5.0mm<sup>2</sup> ( .013mm thick) land areas.
- 3.Measured on 8.3ms , single half sine-wave or equivalent square wave , duty cycle= 4 pulses per minutes maximum.



| Part Number                               | Marking Code |     | V <sub>RWM</sub> | V <sub>BR</sub> @ I <sub>T</sub> |       |                | I <sub>R</sub> @ V <sub>RWM</sub> |      | V <sub>c</sub> @ I <sub>PP</sub> |       | PACKAGE      |
|---|--------------|-----|------------------|----------------------------------|-------|----------------|-----------------------------------|------|----------------------------------|-------|--------------|
|   | UNI-         | BI- |                  | Min.                             | Max.  | I <sub>T</sub> | UNI-                              | BI-  | V                                | A     |              |
|   |              |     | V                | V                                | V     | mA             | uA                                | uA   |                                  |       |              |
| <b>3000W Transient Voltage Suppressor</b> |              |     |                  |                                  |       |                |                                   |      |                                  |       |              |
| 3.0SMCJ5.0(C)                             | HDD          | IDD | 5.0              | 6.40                             | 7.55  | 10             | 1000                              | 2000 | 9.6                              | 312.5 | SMC/DO-214AB |
| 3.0SMCJ5.0(C)A                            | HDE          | IDE | 5.0              | 6.40                             | 7.25  | 10             | 1000                              | 2000 | 9.2                              | 326.0 | SMC/DO-214AB |
| 3.0SMCJ6.0(C)                             | HDF          | IDF | 6.0              | 6.67                             | 8.45  | 10             | 1000                              | 2000 | 11.4                             | 263.2 | SMC/DO-214AB |
| 3.0SMCJ6.0(C)A                            | HDG          | IDG | 6.0              | 6.67                             | 7.67  | 10             | 1000                              | 2000 | 10.3                             | 291.3 | SMC/DO-214AB |
| 3.0SMCJ6.5(C)                             | HDH          | IDH | 6.5              | 7.22                             | 9.14  | 10             | 500                               | 1000 | 12.3                             | 243.9 | SMC/DO-214AB |
| 3.0SMCJ6.5(C)A                            | HDK          | IDK | 6.5              | 7.22                             | 8.30  | 10             | 500                               | 1000 | 11.2                             | 267.9 | SMC/DO-214AB |
| 3.0SMCJ7.0(C)                             | HDL          | IDL | 7.0              | 7.78                             | 9.86  | 10             | 200                               | 400  | 13.3                             | 225.6 | SMC/DO-214AB |
| 3.0SMCJ7.0(C)A                            | HDM          | IDM | 7.0              | 7.78                             | 8.95  | 10             | 200                               | 400  | 12.0                             | 250.0 | SMC/DO-214AB |
| 3.0SMCJ7.5(C)                             | HDN          | IDN | 7.5              | 8.33                             | 10.67 | 1.0            | 100                               | 200  | 14.3                             | 209.8 | SMC/DO-214AB |
| 3.0SMCJ7.5(C)A                            | HDP          | IDP | 7.5              | 8.33                             | 9.58  | 1.0            | 100                               | 200  | 12.9                             | 232.6 | SMC/DO-214AB |
| 3.0SMCJ8.0(C)                             | HDQ          | IDQ | 8.0              | 8.89                             | 11.30 | 1.0            | 50                                | 100  | 15.0                             | 200.0 | SMC/DO-214AB |
| 3.0SMCJ8.0(C)A                            | HDR          | IDR | 8.0              | 8.89                             | 10.23 | 1.0            | 50                                | 100  | 13.6                             | 220.6 | SMC/DO-214AB |
| 3.0SMCJ8.5(C)                             | HDS          | IDS | 8.5              | 9.44                             | 11.92 | 1.0            | 10                                | 20   | 15.9                             | 188.8 | SMC/DO-214AB |
| 3.0SMCJ8.5(C)A                            | HDT          | IDT | 8.5              | 9.44                             | 10.82 | 1.0            | 10                                | 20   | 14.4                             | 208.4 | SMC/DO-214AB |
| 3.0SMCJ9.0(C)                             | HDU          | IDU | 9.0              | 10.0                             | 12.6  | 1.0            | 5                                 | 10   | 16.9                             | 177.4 | SMC/DO-214AB |
| 3.0SMCJ9.0(C)A                            | HDV          | IDV | 9.0              | 10.0                             | 11.5  | 1.0            | 5                                 | 10   | 15.4                             | 194.8 | SMC/DO-214AB |
| 3.0SMCJ10(C)                              | HDW          | IDW | 10               | 11.1                             | 14.1  | 1.0            | 5                                 | 5    | 18.8                             | 159.6 | SMC/DO-214AB |
| 3.0SMCJ10(C)A                             | HDX          | IDX | 10               | 11.1                             | 12.8  | 1.0            | 5                                 | 5    | 17.0                             | 176.4 | SMC/DO-214AB |
| 3.0SMCJ11(C)                              | HDY          | IDY | 11               | 12.2                             | 15.4  | 1.0            | 5                                 | 5    | 20.1                             | 149.2 | SMC/DO-214AB |
| 3.0SMCJ11(C)A                             | HDZ          | IDZ | 11               | 12.2                             | 14.0  | 1.0            | 5                                 | 5    | 18.2                             | 184.8 | SMC/DO-214AB |
| 3.0SMCJ12(C)                              | HED          | IED | 12               | 13.3                             | 16.9  | 1.0            | 5                                 | 5    | 22.0                             | 136.4 | SMC/DO-214AB |
| 3.0SMCJ12(C)A                             | HEE          | IEE | 12               | 13.3                             | 15.3  | 1.0            | 5                                 | 5    | 19.9                             | 150.6 | SMC/DO-214AB |
| 3.0SMCJ13(C)                              | HEF          | IEF | 13               | 14.4                             | 18.2  | 1.0            | 5                                 | 5    | 23.8                             | 126.0 | SMC/DO-214AB |
| 3.0SMCJ13(C)A                             | HEG          | IEG | 13               | 14.4                             | 16.5  | 1.0            | 5                                 | 5    | 21.5                             | 139.4 | SMC/DO-214AB |
| 3.0SMCJ14(C)                              | HEH          | IEH | 14               | 15.6                             | 19.8  | 1.0            | 5                                 | 5    | 25.8                             | 116.2 | SMC/DO-214AB |
| 3.0SMCJ14(C)A                             | HEK          | IEK | 14               | 15.6                             | 17.9  | 1.0            | 5                                 | 5    | 23.2                             | 129.4 | SMC/DO-214AB |
| 3.0SMCJ15(C)                              | HEL          | IEL | 15               | 16.7                             | 21.1  | 1.0            | 5                                 | 5    | 26.9                             | 111.6 | SMC/DO-214AB |
| 3.0SMCJ15(C)A                             | HEM          | IEM | 15               | 16.7                             | 19.2  | 1.0            | 5                                 | 5    | 24.4                             | 123.0 | SMC/DO-214AB |
| 3.0SMCJ16(C)                              | HEN          | IEN | 16               | 17.8                             | 22.6  | 1.0            | 5                                 | 5    | 28.8                             | 104.2 | SMC/DO-214AB |
| 3.0SMCJ16(C)A                             | HEP          | IEP | 16               | 17.8                             | 20.5  | 1.0            | 5                                 | 5    | 26.0                             | 115.4 | SMC/DO-214AB |
| 3.0SMCJ17(C)                              | HEQ          | IEQ | 17               | 18.9                             | 23.9  | 1.0            | 5                                 | 5    | 30.5                             | 98.4  | SMC/DO-214AB |
| 3.0SMCJ17(C)A                             | HER          | IER | 17               | 18.9                             | 21.7  | 1.0            | 5                                 | 5    | 27.6                             | 106.6 | SMC/DO-214AB |
| 3.0SMCJ18(C)                              | HES          | IES | 18               | 20.0                             | 25.3  | 1.0            | 5                                 | 5    | 32.2                             | 93.2  | SMC/DO-214AB |
| 3.0SMCJ18(C)A                             | HET          | IET | 18               | 20.0                             | 23.3  | 1.0            | 5                                 | 5    | 29.2                             | 102.8 | SMC/DO-214AB |
| 3.0SMCJ20(C)                              | HEU          | IEU | 20               | 22.2                             | 28.1  | 1.0            | 5                                 | 5    | 35.8                             | 83.8  | SMC/DO-214AB |
| 3.0SMCJ20(C)A                             | HEV          | IEV | 20               | 22.2                             | 25.5  | 1.0            | 5                                 | 5    | 32.4                             | 92.6  | SMC/DO-214AB |
| 3.0SMCJ22(C)                              | HEW          | IEW | 22               | 24.4                             | 30.9  | 1.0            | 5                                 | 5    | 39.4                             | 76.2  | SMC/DO-214AB |
| 3.0SMCJ22(C)A                             | HEX          | IEX | 22               | 24.4                             | 28.0  | 1.0            | 5                                 | 5    | 35.5                             | 84.4  | SMC/DO-214AB |
| 3.0SMCJ24(C)                              | HEZ          | IEZ | 24               | 26.7                             | 33.8  | 1.0            | 5                                 | 5    | 43.0                             | 69.8  | SMC/DO-214AB |
| 3.0SMCJ24(C)A                             | HEY          | IEY | 24               | 26.7                             | 30.7  | 1.0            | 5                                 | 5    | 38.9                             | 77.2  | SMC/DO-214AB |
| 3.0SMCJ26(C)                              | HFD          | IFD | 26               | 28.9                             | 36.6  | 1.0            | 5                                 | 5    | 46.6                             | 64.4  | SMC/DO-214AB |
| 3.0SMCJ26(C)A                             | HFE          | IFE | 26               | 28.9                             | 33.2  | 1.0            | 5                                 | 5    | 42.1                             | 71.2  | SMC/DO-214AB |
| 3.0SMCJ28(C)                              | HFF          | IFF | 28               | 31.1                             | 39.4  | 1.0            | 5                                 | 5    | 50.0                             | 60.0  | SMC/DO-214AB |
| 3.0SMCJ28(C)A                             | HFG          | IFG | 28               | 31.1                             | 35.8  | 1.0            | 5                                 | 5    | 45.4                             | 66.0  | SMC/DO-214AB |
| 3.0SMCJ30(C)                              | HFH          | IFH | 30               | 33.3                             | 42.2  | 1.0            | 5                                 | 5    | 53.5                             | 56.0  | SMC/DO-214AB |
| 3.0SMCJ30(C)A                             | HFK          | IFK | 30               | 33.3                             | 38.3  | 1.0            | 5                                 | 5    | 48.4                             | 62.0  | SMC/DO-214AB |
| 3.0SMCJ33(C)                              | HFL          | IFL | 33               | 36.7                             | 46.5  | 1.0            | 5                                 | 5    | 59.0                             | 50.4  | SMC/DO-214AB |
| 3.0SMCJ33(C)A                             | HFM          | IFM | 33               | 36.7                             | 42.2  | 1.0            | 5                                 | 5    | 53.3                             | 56.2  | SMC/DO-214AB |
| 3.0SMCJ36(C)                              | HFN          | IFN | 36               | 40.0                             | 50.7  | 1.0            | 5                                 | 5    | 64.3                             | 46.6  | SMC/DO-214AB |
| 3.0SMCJ36(C)A                             | HFP          | IFP | 36               | 40.0                             | 46.0  | 1.0            | 5                                 | 5    | 58.1                             | 51.6  | SMC/DO-214AB |
| 3.0SMCJ40(C)                              | HFQ          | IFQ | 40               | 44.4                             | 56.3  | 1.0            | 5                                 | 5    | 71.4                             | 42.0  | SMC/DO-214AB |
| 3.0SMCJ40(C)A                             | HFR          | IFR | 40               | 44.4                             | 51.1  | 1.0            | 5                                 | 5    | 64.5                             | 46.4  | SMC/DO-214AB |



| Part Number                               | Marking Code |     | V <sub>RWM</sub> | V <sub>BR</sub> @ I <sub>T</sub> |        |                   | I <sub>R</sub> @ V <sub>RWM</sub> |        | V <sub>C</sub> @ I <sub>PP</sub> |      | PACKAGE      |
|---|--------------|-----|------------------|----------------------------------|--------|-------------------|-----------------------------------|--------|----------------------------------|------|--------------|
|   | UNI-         | BI- |                  | Min. V                           | Max. V | I <sub>T</sub> mA | UNI- uA                           | BI- uA | V                                | A    |              |
|   |              |     | V                | V                                |        |                   |                                   |        |                                  |      |              |
| <b>3000W Transient Voltage Suppressor</b> |              |     |                  |                                  |        |                   |                                   |        |                                  |      |              |
| 3.0SMCJ43(C)                              | HFS          | IFS | 43               | 47.8                             | 60.5   | 1.0               | 5                                 | 5      | 76.7                             | 39.2 | SMC/DO-214AB |
| 3.0SMCJ43(C)A                             | HFT          | IFT | 43               | 47.8                             | 54.9   | 1.0               | 5                                 | 5      | 69.4                             | 43.2 | SMC/DO-214AB |
| 3.0SMCJ45(C)                              | HFU          | IFU | 45               | 50.0                             | 63.3   | 1.0               | 5                                 | 5      | 80.3                             | 37.4 | SMC/DO-214AB |
| 3.0SMCJ45(C)A                             | HFV          | IFV | 45               | 50.0                             | 57.5   | 1.0               | 5                                 | 5      | 72.7                             | 41.2 | SMC/DO-214AB |
| 3.0SMCJ48(C)                              | HFV          | IFV | 48               | 53.3                             | 67.5   | 1.0               | 5                                 | 5      | 85.5                             | 35.0 | SMC/DO-214AB |
| 3.0SMCJ48(C)A                             | HFX          | IFX | 48               | 53.3                             | 61.3   | 1.0               | 5                                 | 5      | 77.4                             | 38.8 | SMC/DO-214AB |
| 3.0SMCJ51(C)                              | HFY          | IFY | 51               | 56.7                             | 71.8   | 1.0               | 5                                 | 5      | 91.1                             | 37.0 | SMC/DO-214AB |
| 3.0SMCJ51(C)A                             | HFZ          | IFZ | 51               | 56.7                             | 65.2   | 1.0               | 5                                 | 5      | 82.4                             | 36.4 | SMC/DO-214AB |
| 3.0SMCJ54(C)                              | HGD          | IGD | 54               | 60.0                             | 76.0   | 1.0               | 5                                 | 5      | 96.3                             | 31.2 | SMC/DO-214AB |
| 3.0SMCJ54(C)A                             | HGE          | IGE | 54               | 60.0                             | 69.0   | 1.0               | 5                                 | 5      | 87.1                             | 34.4 | SMC/DO-214AB |
| 3.0SMCJ58(C)                              | HGF          | IGF | 58               | 64.4                             | 81.6   | 1.0               | 5                                 | 5      | 103                              | 39.2 | SMC/DO-214AB |
| 3.0SMCJ58(C)A                             | HGG          | IGG | 58               | 64.4                             | 74.1   | 1.0               | 5                                 | 5      | 93.6                             | 32.0 | SMC/DO-214AB |
| 3.0SMCJ60(C)                              | HGH          | IGH | 60               | 66.7                             | 84.5   | 1.0               | 5                                 | 5      | 107                              | 28.0 | SMC/DO-214AB |
| 3.0SMCJ60(C)A                             | HGK          | IGK | 60               | 66.7                             | 76.7   | 1.0               | 5                                 | 5      | 96.8                             | 31.0 | SMC/DO-214AB |
| 3.0SMCJ64(C)                              | HGL          | IGL | 64               | 71.1                             | 90.1   | 1.0               | 5                                 | 5      | 114                              | 26.4 | SMC/DO-214AB |
| 3.0SMCJ64(C)A                             | HGM          | IGM | 64               | 71.1                             | 81.8   | 1.0               | 5                                 | 5      | 103                              | 29.2 | SMC/DO-214AB |
| 3.0SMCJ70(C)                              | HGN          | IGN | 70               | 77.8                             | 98.6   | 1.0               | 5                                 | 5      | 125                              | 24.0 | SMC/DO-214AB |
| 3.0SMCJ70(C)A                             | HGP          | IGP | 70               | 77.8                             | 89.5   | 1.0               | 5                                 | 5      | 113                              | 26.6 | SMC/DO-214AB |
| 3.0SMCJ75(C)                              | HGQ          | IGQ | 75               | 83.3                             | 105.7  | 1.0               | 5                                 | 5      | 134                              | 22.4 | SMC/DO-214AB |
| 3.0SMCJ75(C)A                             | HGR          | IGR | 75               | 83.3                             | 95.8   | 1.0               | 5                                 | 5      | 121                              | 24.8 | SMC/DO-214AB |
| 3.0SMCJ78(C)                              | HGS          | IGS | 78               | 86.7                             | 109.8  | 1.0               | 5                                 | 5      | 139                              | 21.6 | SMC/DO-214AB |
| 3.0SMCJ78(C)A                             | HGT          | IGT | 78               | 86.7                             | 99.7   | 1.0               | 5                                 | 5      | 126                              | 22.8 | SMC/DO-214AB |
| 3.0SMCJ85(C)                              | HGU          | IGU | 85               | 94.4                             | 119.2  | 1.0               | 5                                 | 5      | 151                              | 19.8 | SMC/DO-214AB |
| 3.0SMCJ85(C)A                             | HGV          | IGV | 85               | 94.4                             | 108.2  | 1.0               | 5                                 | 5      | 137                              | 20.8 | SMC/DO-214AB |
| 3.0SMCJ90(C)                              | HGW          | IGW | 90               | 100                              | 126.5  | 1.0               | 5                                 | 5      | 160                              | 18.8 | SMC/DO-214AB |
| 3.0SMCJ90(C)A                             | HGX          | IGX | 90               | 100                              | 115.5  | 1.0               | 5                                 | 5      | 146                              | 20.6 | SMC/DO-214AB |
| 3.0SMCJ100(C)                             | HGZ          | IGZ | 100              | 111                              | 141.0  | 1.0               | 5                                 | 5      | 179                              | 16.6 | SMC/DO-214AB |
| 3.0SMCJ100(C)A                            | HGY          | IGY | 100              | 111                              | 128.0  | 1.0               | 5                                 | 5      | 162                              | 18.6 | SMC/DO-214AB |
| 3.0SMCJ110(C)                             | HHD          | IHD | 110              | 122                              | 154.5  | 1.0               | 5                                 | 5      | 196                              | 15.4 | SMC/DO-214AB |
| 3.0SMCJ110(C)A                            | HHE          | IHE | 110              | 122                              | 140.5  | 1.0               | 5                                 | 5      | 177                              | 16.8 | SMC/DO-214AB |
| 3.0SMCJ120(C)                             | HHF          | IHF | 120              | 133                              | 169.0  | 1.0               | 5                                 | 5      | 214                              | 14.0 | SMC/DO-214AB |
| 3.0SMCJ120(C)A                            | HHG          | IHG | 120              | 133                              | 153.0  | 1.0               | 5                                 | 5      | 193                              | 15.6 | SMC/DO-214AB |
| 3.0SMCJ130(C)                             | HHH          | IHH | 130              | 144                              | 182.5  | 1.0               | 5                                 | 5      | 231                              | 13.0 | SMC/DO-214AB |
| 3.0SMCJ130(C)A                            | HHK          | IHK | 130              | 144                              | 165.5  | 1.0               | 5                                 | 5      | 209                              | 14.4 | SMC/DO-214AB |
| 3.0SMCJ150(C)                             | HHL          | IHL | 150              | 167                              | 211.5  | 1.0               | 5                                 | 5      | 268                              | 11.2 | SMC/DO-214AB |
| 3.0SMCJ150(C)A                            | HHM          | IHM | 150              | 167                              | 192.5  | 1.0               | 5                                 | 5      | 243                              | 12.4 | SMC/DO-214AB |
| 3.0SMCJ160(C)                             | HHN          | IHN | 160              | 178                              | 226.0  | 1.0               | 5                                 | 5      | 287                              | 10.4 | SMC/DO-214AB |
| 3.0SMCJ160(C)A                            | HHP          | IHP | 160              | 178                              | 205.0  | 1.0               | 5                                 | 5      | 259                              | 11.6 | SMC/DO-214AB |
| 3.0SMCJ170(C)                             | HHQ          | IHQ | 170              | 189                              | 239.5  | 1.0               | 5                                 | 5      | 304                              | 9.8  | SMC/DO-214AB |
| 3.0SMCJ170(C)A                            | HHR          | IHR | 170              | 189                              | 217.5  | 1.0               | 5                                 | 5      | 275                              | 11.0 | SMC/DO-214AB |
| 3.0SMCJ180(C)                             | HHS          | IHS | 180              | 198                              | 253.8  | 1.0               | 5                                 | 5      | 322                              | 9.3  | SMC/DO-214AB |
| 3.0SMCJ180(C)A                            | HHT          | IHT | 180              | 198                              | 230.4  | 1.0               | 5                                 | 5      | 292                              | 10.3 | SMC/DO-214AB |
| 3.0SMCJ190(C)                             | HHU          | IHU | 190              | 209                              | 267.9  | 1.0               | 5                                 | 5      | 340                              | 8.8  | SMC/DO-214AB |
| 3.0SMCJ190(C)A                            | HHV          | IHV | 190              | 209                              | 243.2  | 1.0               | 5                                 | 5      | 308                              | 9.7  | SMC/DO-214AB |
| 3.0SMCJ200(C)                             | HHW          | IHW | 200              | 220                              | 282.0  | 1.0               | 5                                 | 5      | 358                              | 8.4  | SMC/DO-214AB |
| 3.0SMCJ200(C)A                            | HHX          | IHX | 200              | 220                              | 256.0  | 1.0               | 5                                 | 5      | 324                              | 9.3  | SMC/DO-214AB |
| 3.0SMCJ210(C)                             | HHY          | IHY | 210              | 231                              | 296.1  | 1.0               | 5                                 | 5      | 376                              | 7.8  | SMC/DO-214AB |
| 3.0SMCJ210(C)A                            | HHZ          | IHZ | 210              | 231                              | 268.8  | 1.0               | 5                                 | 5      | 340                              | 8.8  | SMC/DO-214AB |
| 3.0SMCJ220(C)                             | HID          | IID | 220              | 242                              | 310.2  | 1.0               | 5                                 | 5      | 394                              | 7.6  | SMC/DO-214AB |
| 3.0SMCJ220(C)A                            | HIE          | IIE | 220              | 242                              | 281.6  | 1.0               | 5                                 | 5      | 356                              | 8.4  | SMC/DO-214AB |



FIGURE 1-PEAK PULSE POWER RATING CURVE



FIGURE 2 DERATING CURVE



FIGURE 3-PULSE WAVEFORM

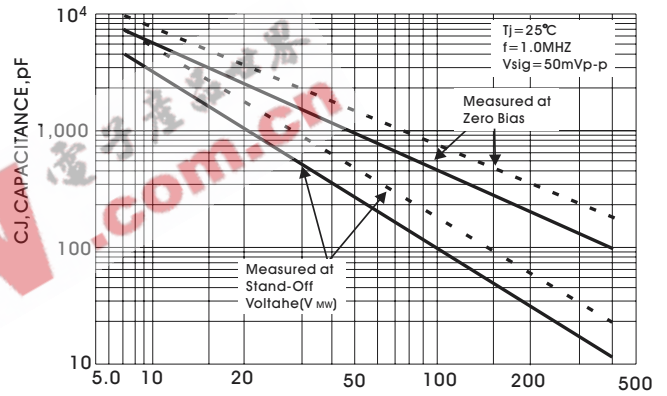


FIGURE 4 TYPICAL CAPACITANCE



FIG. 5-MAXIMUM NON-REPETITIVE PEAK FOWARD SURGE CURRENT UNIDIRECTIONAL