



# 3.0SMCJ5.0~3.0SMCJ220CA

## SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR PEAK PULSE POWER 3000 Watt

**STAND-OFF VOLTAGE**

**5 to 220 Volt**

**SMC / DO-214AB**

Unit : inch(mm)

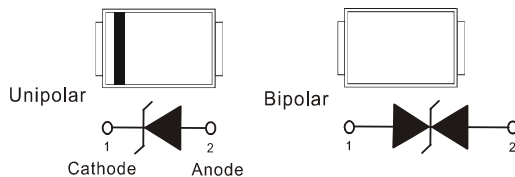
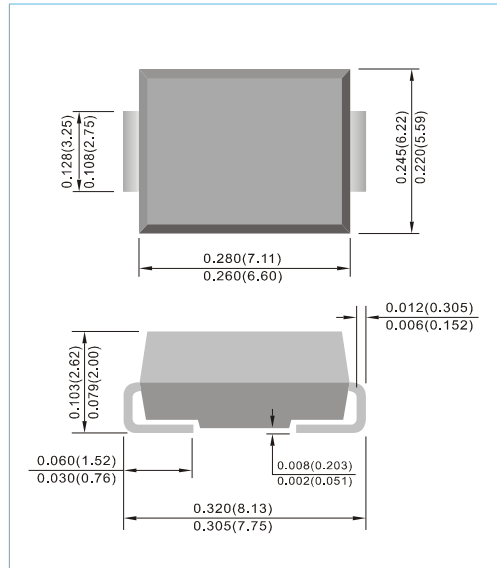
**Recongized File # E210467**

### FEATURES

- For surface mounted applications in order to optimize board space
- Low inductance
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High temperature soldering : 260°C /10 seconds at terminals
- ESD IEC-61000-4-2 Air  $\pm$  30kV, Contact  $\pm$  30kV
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

### 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 cathode end
- Standard Packaging: 16mm tape (EIA-481)
- Approx. Weight: 0.008 ounce, 0.23 gram



### DEVICES FOR BIPOLAR APPLICATIONS

For Bidirectional use C or CA Suffix for types 3.0SMCJ5.0 thru types 3.0SMCJ220.  
 Electrical characteristics apply in both directions.

### 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 Pulse Power Dissipation on $t_p=10/1000\mu s$ waveform (Notes 1, Fig.1)                | PPP                               | 3000                 | Watts  |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (Notes 2) | IFSM                              | 300                  | Amps   |
| Peak Pulse Current on $t_p=10/1000\mu s$ waveform (Notes 1) Fig.3                           | IPPM                              | see Table 1          | Amps   |
| Typical Thermal Resistance Junction to Air                                                  | $R_{\theta JA}$                   | 25                   | °C / W |
| ESD IEC-61000-4-2 (Air)<br>ESD IEC-61000-4-2 (Contact)                                      | VESD                              | $\pm 30$<br>$\pm 30$ | kV     |
| Operating Junction and Storage Temperature Range                                            | T <sub>J</sub> , T <sub>STG</sub> | -55 to +150          | °C     |

**NOTES :**

- 1.Non-repetitive current pulse, per Fig. 3 and derated above  $T_A=25^\circ C$  per Fig. 2.
- 2.Measured on 8.3ms single half sine wave or equivalent square wave for unidirectional device only, duty cycle=4 per minute maximum.
- 3.A transient suppressor is selected according to the working peak reverse voltage ( $V_{RWM}$ ), which should be equal to or greater than the DC or continuous peak operating voltage level.



## 3.0SMCJ5.0~3.0SMCJ220CA

| Part Number                               |              | Reverse Stand-off Voltage | Breakdown Voltage                |       | Test Current | Reverse Leakage                   |      | Max. Clamp Voltage<br>10/1000 μs | Peak Pulse Current<br>10/1000μs | Marking Code |     |
|-------------------------------------------|--------------|---------------------------|----------------------------------|-------|--------------|-----------------------------------|------|----------------------------------|---------------------------------|--------------|-----|
|                                           |              |                           | V <sub>BR</sub> @ I <sub>T</sub> |       |              | I <sub>R</sub> @ V <sub>RRM</sub> |      |                                  |                                 |              |     |
| UNI                                       | BI           | V                         | Min.                             | Max.  | mA           | UNI                               | BI   | V                                | A                               | UNI          | BI  |
|                                           |              |                           | V                                | V     |              | μA                                | μA   |                                  |                                 |              |     |
| <b>3000W Transient Voltage Suppressor</b> |              |                           |                                  |       |              |                                   |      |                                  |                                 |              |     |
| 3.0SMCJ5.0                                | 3.0SMCJ5.0C  | 5                         | 6.4                              | 7.55  | 10           | 1000                              | 2000 | 9.6                              | 312.5                           | HDD          | IDD |
| 3.0SMCJ5.0A                               | 3.0SMCJ5.0CA | 5                         | 6.4                              | 7.25  | 10           | 1000                              | 2000 | 9.2                              | 326                             | HDE          | IDE |
| 3.0SMCJ6.0                                | 3.0SMCJ6.0C  | 6                         | 6.67                             | 8.45  | 10           | 1000                              | 2000 | 11.4                             | 263.2                           | HDF          | IDF |
| 3.0SMCJ6.0A                               | 3.0SMCJ6.0CA | 6                         | 6.67                             | 7.67  | 10           | 1000                              | 2000 | 10.3                             | 291.3                           | HDG          | IDG |
| 3.0SMCJ6.5                                | 3.0SMCJ6.5C  | 6.5                       | 7.22                             | 9.14  | 10           | 500                               | 1000 | 12.3                             | 243.9                           | HDH          | IDH |
| 3.0SMCJ6.5A                               | 3.0SMCJ6.5CA | 6.5                       | 7.22                             | 8.3   | 10           | 500                               | 1000 | 11.2                             | 267.9                           | HDK          | IDK |
| 3.0SMCJ7.0                                | 3.0SMCJ7.0C  | 7                         | 7.78                             | 9.86  | 10           | 200                               | 400  | 13.3                             | 225.6                           | HDL          | IDL |
| 3.0SMCJ7.0A                               | 3.0SMCJ7.0CA | 7                         | 7.78                             | 8.95  | 10           | 200                               | 400  | 12                               | 250                             | HDM          | IDM |
| 3.0SMCJ7.5                                | 3.0SMCJ7.5C  | 7.5                       | 8.33                             | 10.67 | 1            | 100                               | 200  | 14.3                             | 209.8                           | HDN          | IDN |
| 3.0SMCJ7.5A                               | 3.0SMCJ7.5CA | 7.5                       | 8.33                             | 9.6   | 1            | 100                               | 200  | 12.9                             | 232.6                           | HDP          | IDP |
| 3.0SMCJ8.0                                | 3.0SMCJ8.0C  | 8                         | 8.89                             | 11.3  | 1            | 50                                | 100  | 15.00                            | 200                             | HDQ          | IDQ |
| 3.0SMCJ8.0A                               | 3.0SMCJ8.0CA | 8                         | 8.89                             | 10.23 | 1            | 50                                | 100  | 13.6                             | 220.6                           | HDR          | IDR |
| 3.0SMCJ8.5                                | 3.0SMCJ8.5C  | 8.5                       | 9.44                             | 11.92 | 1            | 25                                | 50   | 15.9                             | 188.8                           | HDS          | IDS |
| 3.0SMCJ8.5A                               | 3.0SMCJ8.5CA | 8.5                       | 9.44                             | 10.82 | 1            | 25                                | 50   | 14.4                             | 208.4                           | HDT          | IDT |
| 3.0SMCJ9.0                                | 3.0SMCJ9.0C  | 9                         | 10                               | 12.6  | 1            | 10                                | 20   | 16.9                             | 177.4                           | HDU          | IDU |
| 3.0SMCJ9.0A                               | 3.0SMCJ9.0CA | 9                         | 10                               | 11.5  | 1            | 10                                | 20   | 15.4                             | 194.8                           | HDV          | IDV |
| 3.0SMCJ10                                 | 3.0SMCJ10C   | 10                        | 11.1                             | 14.1  | 1            | 3                                 | 3    | 18.8                             | 159.6                           | HDW          | IDW |
| 3.0SMCJ10A                                | 3.0SMCJ10CA  | 10                        | 11.1                             | 12.8  | 1            | 3                                 | 3    | 17                               | 176.4                           | HDX          | IDX |
| 3.0SMCJ11                                 | 3.0SMCJ11C   | 11                        | 12.2                             | 15.4  | 1            | 3                                 | 3    | 20.1                             | 149.2                           | HDY          | IDY |
| 3.0SMCJ11A                                | 3.0SMCJ11CA  | 11                        | 12.2                             | 14    | 1            | 3                                 | 3    | 18.2                             | 184.8                           | HDZ          | IDZ |
| 3.0SMCJ12                                 | 3.0SMCJ12C   | 12                        | 13.3                             | 16.9  | 1            | 3                                 | 3    | 22                               | 136.4                           | HED          | IED |
| 3.0SMCJ12A                                | 3.0SMCJ12CA  | 12                        | 13.3                             | 15.3  | 1            | 3                                 | 3    | 19.9                             | 150.6                           | HEE          | IEE |
| 3.0SMCJ13                                 | 3.0SMCJ13C   | 13                        | 14.4                             | 18.2  | 1            | 3                                 | 3    | 23.8                             | 126                             | HEF          | IEF |
| 3.0SMCJ13A                                | 3.0SMCJ13CA  | 13                        | 14.4                             | 16.5  | 1            | 3                                 | 3    | 21.5                             | 139.4                           | HEG          | IEG |
| 3.0SMCJ14                                 | 3.0SMCJ14C   | 14                        | 15.6                             | 19.8  | 1            | 3                                 | 3    | 25.8                             | 116.2                           | HEH          | IEH |
| 3.0SMCJ14A                                | 3.0SMCJ14CA  | 14                        | 15.6                             | 17.9  | 1            | 3                                 | 3    | 23.2                             | 129.4                           | HEK          | IEK |
| 3.0SMCJ15                                 | 3.0SMCJ15C   | 15                        | 16.7                             | 21.1  | 1            | 3                                 | 3    | 26.9                             | 111.6                           | HEL          | IEL |
| 3.0SMCJ15A                                | 3.0SMCJ15CA  | 15                        | 16.7                             | 19.2  | 1            | 3                                 | 3    | 24.4                             | 123                             | HEM          | IEM |
| 3.0SMCJ16                                 | 3.0SMCJ16C   | 16                        | 17.8                             | 22.6  | 1            | 3                                 | 3    | 28.8                             | 104.2                           | HEN          | IEN |
| 3.0SMCJ16A                                | 3.0SMCJ16CA  | 16                        | 17.8                             | 20.5  | 1            | 3                                 | 3    | 26                               | 115.4                           | HEP          | IEP |
| 3.0SMCJ17                                 | 3.0SMCJ17C   | 17                        | 18.9                             | 23.9  | 1            | 3                                 | 3    | 30.5                             | 98.4                            | HEQ          | IEQ |
| 3.0SMCJ17A                                | 3.0SMCJ17CA  | 17                        | 18.9                             | 21.7  | 1            | 3                                 | 3    | 27.6                             | 106.6                           | HER          | IER |
| 3.0SMCJ18                                 | 3.0SMCJ18C   | 18                        | 20                               | 25.3  | 1            | 3                                 | 3    | 32.2                             | 93.2                            | HES          | IES |
| 3.0SMCJ18A                                | 3.0SMCJ18CA  | 18                        | 20                               | 23.3  | 1            | 3                                 | 3    | 29.2                             | 102.8                           | HET          | IET |
| 3.0SMCJ20                                 | 3.0SMCJ20C   | 20                        | 22.2                             | 28.1  | 1            | 3                                 | 3    | 35.8                             | 83.8                            | HEU          | IEU |
| 3.0SMCJ20A                                | 3.0SMCJ20CA  | 20                        | 22.2                             | 25.5  | 1            | 3                                 | 3    | 32.4                             | 92.6                            | HEV          | IEV |
| 3.0SMCJ22                                 | 3.0SMCJ22C   | 22                        | 24.4                             | 30.9  | 1            | 3                                 | 3    | 39.4                             | 76.2                            | HEW          | IEW |
| 3.0SMCJ22A                                | 3.0SMCJ22CA  | 22                        | 24.4                             | 28    | 1            | 3                                 | 3    | 35.5                             | 84.4                            | HEX          | IEX |
| 3.0SMCJ24                                 | 3.0SMCJ24C   | 24                        | 26.7                             | 33.8  | 1            | 3                                 | 3    | 43                               | 69.8                            | HEY          | IEY |
| 3.0SMCJ24A                                | 3.0SMCJ24CA  | 24                        | 26.7                             | 30.7  | 1            | 3                                 | 3    | 38.9                             | 77.2                            | HEZ          | IEZ |
| 3.0SMCJ26                                 | 3.0SMCJ26C   | 26                        | 28.9                             | 36.6  | 1            | 3                                 | 3    | 46.6                             | 64.4                            | HFD          | IFD |
| 3.0SMCJ26A                                | 3.0SMCJ26CA  | 26                        | 28.9                             | 33.2  | 1            | 3                                 | 3    | 42.1                             | 71.2                            | HFE          | IFE |
| 3.0SMCJ28                                 | 3.0SMCJ28C   | 28                        | 31.1                             | 39.4  | 1            | 3                                 | 3    | 50                               | 60                              | HFF          | IFF |
| 3.0SMCJ28A                                | 3.0SMCJ28CA  | 28                        | 31.1                             | 35.8  | 1            | 3                                 | 3    | 45.4                             | 66                              | HFG          | IFG |
| 3.0SMCJ30                                 | 3.0SMCJ30C   | 30                        | 33.3                             | 42.2  | 1            | 3                                 | 3    | 53.5                             | 56                              | HFH          | IFH |
| 3.0SMCJ30A                                | 3.0SMCJ30CA  | 30                        | 33.3                             | 38.3  | 1            | 3                                 | 3    | 48.4                             | 62                              | HFK          | IFK |
| 3.0SMCJ33                                 | 3.0SMCJ33C   | 33                        | 36.7                             | 46.5  | 1            | 3                                 | 3    | 59                               | 50.4                            | HFL          | IFL |
| 3.0SMCJ33A                                | 3.0SMCJ33CA  | 33                        | 36.7                             | 42.2  | 1            | 3                                 | 3    | 53.3                             | 56.2                            | HFM          | IFM |
| 3.0SMCJ36                                 | 3.0SMCJ36C   | 36                        | 40                               | 50.7  | 1            | 3                                 | 3    | 64.3                             | 46.6                            | HFN          | IFN |
| 3.0SMCJ36A                                | 3.0SMCJ36CA  | 36                        | 40                               | 46    | 1            | 3                                 | 3    | 58.1                             | 51.6                            | HFP          | IFP |
| 3.0SMCJ40                                 | 3.0SMCJ40C   | 40                        | 44.4                             | 56.3  | 1            | 3                                 | 3    | 71.4                             | 42                              | HFQ          | IFQ |
| 3.0SMCJ40A                                | 3.0SMCJ40CA  | 40                        | 44.4                             | 51.1  | 1            | 3                                 | 3    | 64.5                             | 46.4                            | HFR          | IFR |
| 3.0SMCJ43                                 | 3.0SMCJ43C   | 43                        | 47.8                             | 60.5  | 1            | 3                                 | 3    | 76.7                             | 39.2                            | HFS          | IFS |

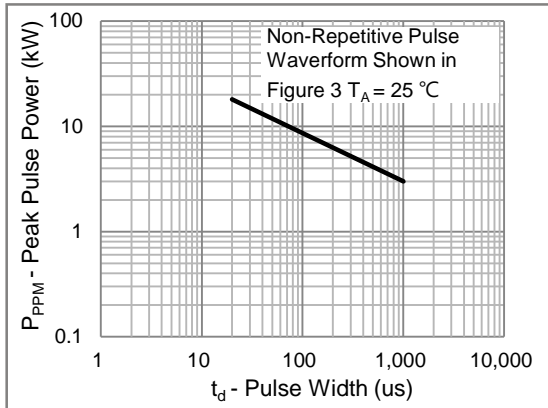


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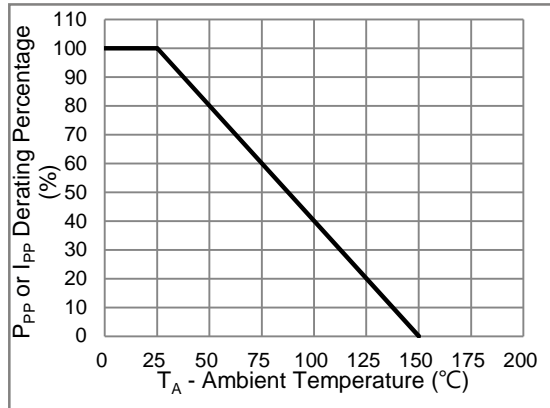
| Part Number                               |              | Reverse Stand-off Voltage | Breakdown Voltage                |                | Test Current | Reverse Leakage                   |                                  | Max Clamp Voltage<br>10/1000 μs | Peak Pulse Current<br>10/1000μs | Marking Code |     |
|-------------------------------------------|--------------|---------------------------|----------------------------------|----------------|--------------|-----------------------------------|----------------------------------|---------------------------------|---------------------------------|--------------|-----|
|                                           |              |                           | V <sub>BR</sub> @ I <sub>T</sub> | I <sub>r</sub> |              | I <sub>r</sub> @ V <sub>RWM</sub> |                                  |                                 |                                 |              |     |
| V <sub>RWM</sub><br>(Notes 3)             | Min.         | Max.                      |                                  |                | UNI          | BI                                | V <sub>C</sub> @ I <sub>PP</sub> | I <sub>PP</sub>                 | UNI                             | BI           |     |
| UNI                                       | BI           | V                         | V                                | V              | mA           | μA                                | μA                               | V                               | A                               | UNI          | BI  |
| <b>3000W Transient Voltage Suppressor</b> |              |                           |                                  |                |              |                                   |                                  |                                 |                                 |              |     |
| 3.0SMCJ43A                                | 3.0SMCJ43CA  | 43                        | 47.8                             | 54.9           | 1            | 3                                 | 3                                | 69.4                            | 43.2                            | HFT          | IFT |
| 3.0SMCJ45                                 | 3.0SMCJ45C   | 45                        | 50                               | 63.3           | 1            | 3                                 | 3                                | 80.3                            | 37.4                            | HFU          | IFU |
| 3.0SMCJ45A                                | 3.0SMCJ45CA  | 45                        | 50                               | 57.5           | 1            | 3                                 | 3                                | 72.7                            | 41.2                            | HFV          | IFV |
| 3.0SMCJ48                                 | 3.0SMCJ48C   | 48                        | 53.3                             | 67.5           | 1            | 3                                 | 3                                | 85.5                            | 35                              | HFW          | IFW |
| 3.0SMCJ48A                                | 3.0SMCJ48CA  | 48                        | 53.3                             | 61.3           | 1            | 3                                 | 3                                | 77.4                            | 38.8                            | HFX          | IFX |
| 3.0SMCJ51                                 | 3.0SMCJ51C   | 51                        | 56.7                             | 71.8           | 1            | 3                                 | 3                                | 91.1                            | 37                              | HFY          | IFY |
| 3.0SMCJ51A                                | 3.0SMCJ51CA  | 51                        | 56.7                             | 65.2           | 1            | 3                                 | 3                                | 82.4                            | 36.4                            | HFZ          | IFZ |
| 3.0SMCJ54                                 | 3.0SMCJ54C   | 54                        | 60                               | 76             | 1            | 3                                 | 3                                | 96.3                            | 31.2                            | HGD          | IGD |
| 3.0SMCJ54A                                | 3.0SMCJ54CA  | 54                        | 60                               | 69             | 1            | 3                                 | 3                                | 87.1                            | 34.4                            | HGE          | IGE |
| 3.0SMCJ58                                 | 3.0SMCJ58C   | 58                        | 64.4                             | 81.6           | 1            | 3                                 | 3                                | 103                             | 39.2                            | HGF          | IGF |
| 3.0SMCJ58A                                | 3.0SMCJ58CA  | 58                        | 64.4                             | 74.1           | 1            | 3                                 | 3                                | 93.6                            | 32                              | HGG          | IGG |
| 3.0SMCJ60                                 | 3.0SMCJ60C   | 60                        | 66.7                             | 84.5           | 1            | 3                                 | 3                                | 107                             | 28                              | HGH          | IGH |
| 3.0SMCJ60A                                | 3.0SMCJ60CA  | 60                        | 66.7                             | 76.7           | 1            | 3                                 | 3                                | 96.8                            | 31                              | HGK          | IGK |
| 3.0SMCJ64                                 | 3.0SMCJ64C   | 64                        | 71.1                             | 90.1           | 1            | 3                                 | 3                                | 114                             | 26.4                            | HGL          | IGL |
| 3.0SMCJ64A                                | 3.0SMCJ64CA  | 64                        | 71.1                             | 81.8           | 1            | 3                                 | 3                                | 103                             | 29.2                            | HGM          | IGM |
| 3.0SMCJ70                                 | 3.0SMCJ70C   | 70                        | 77.8                             | 98.6           | 1            | 3                                 | 3                                | 125                             | 24                              | HGN          | IGN |
| 3.0SMCJ70A                                | 3.0SMCJ70CA  | 70                        | 77.8                             | 89.5           | 1            | 3                                 | 3                                | 113                             | 26.6                            | HGP          | IGP |
| 3.0SMCJ75                                 | 3.0SMCJ75C   | 75                        | 83.3                             | 105.7          | 1            | 3                                 | 3                                | 134                             | 22.4                            | HGQ          | IGQ |
| 3.0SMCJ75A                                | 3.0SMCJ75CA  | 75                        | 83.3                             | 95.8           | 1            | 3                                 | 3                                | 121                             | 24.8                            | HGR          | IGR |
| 3.0SMCJ78                                 | 3.0SMCJ78C   | 78                        | 86.7                             | 109.8          | 1            | 3                                 | 3                                | 139                             | 21.6                            | HGS          | IGS |
| 3.0SMCJ78A                                | 3.0SMCJ78CA  | 78                        | 86.7                             | 99.7           | 1            | 3                                 | 3                                | 126                             | 22.8                            | HGT          | IGT |
| 3.0SMCJ85                                 | 3.0SMCJ85C   | 85                        | 94.4                             | 119.2          | 1            | 3                                 | 3                                | 151                             | 19.8                            | HGU          | IGU |
| 3.0SMCJ85A                                | 3.0SMCJ85CA  | 85                        | 94.4                             | 108.2          | 1            | 3                                 | 3                                | 137                             | 20.8                            | HGV          | IGV |
| 3.0SMCJ90                                 | 3.0SMCJ90C   | 90                        | 100                              | 126.5          | 1            | 3                                 | 3                                | 160                             | 18.8                            | HGW          | IGW |
| 3.0SMCJ90A                                | 3.0SMCJ90CA  | 90                        | 100                              | 115.5          | 1            | 3                                 | 3                                | 146                             | 20.6                            | HGX          | IGX |
| 3.0SMCJ100                                | 3.0SMCJ100C  | 100                       | 111                              | 141            | 1            | 3                                 | 3                                | 179                             | 16.6                            | HGY          | IGY |
| 3.0SMCJ100A                               | 3.0SMCJ100CA | 100                       | 111                              | 128            | 1            | 3                                 | 3                                | 162                             | 18.6                            | HGZ          | IGZ |
| 3.0SMCJ110                                | 3.0SMCJ110C  | 110                       | 122                              | 154.5          | 1            | 3                                 | 3                                | 196                             | 15.4                            | HHD          | IHD |
| 3.0SMCJ110A                               | 3.0SMCJ110CA | 110                       | 122                              | 140.5          | 1            | 3                                 | 3                                | 177                             | 16.8                            | HHE          | IHE |
| 3.0SMCJ120                                | 3.0SMCJ120C  | 120                       | 133                              | 169            | 1            | 3                                 | 3                                | 214                             | 14                              | HHF          | IHF |
| 3.0SMCJ120A                               | 3.0SMCJ120CA | 120                       | 133                              | 153            | 1            | 3                                 | 3                                | 193                             | 15.6                            | HHG          | IHG |
| 3.0SMCJ130                                | 3.0SMCJ130C  | 130                       | 144                              | 182.5          | 1            | 3                                 | 3                                | 231                             | 13                              | HHH          | IHH |
| 3.0SMCJ130A                               | 3.0SMCJ130CA | 130                       | 144                              | 165.5          | 1            | 3                                 | 3                                | 209                             | 14.4                            | HHK          | IHK |
| 3.0SMCJ150                                | 3.0SMCJ150C  | 150                       | 167                              | 211.5          | 1            | 3                                 | 3                                | 268                             | 11.2                            | HHL          | IHL |
| 3.0SMCJ150A                               | 3.0SMCJ150CA | 150                       | 167                              | 192.5          | 1            | 3                                 | 3                                | 243                             | 12.4                            | HHM          | IHM |
| 3.0SMCJ160                                | 3.0SMCJ160C  | 160                       | 178                              | 226            | 1            | 3                                 | 3                                | 287                             | 10.4                            | HHN          | IHN |
| 3.0SMCJ160A                               | 3.0SMCJ160CA | 160                       | 178                              | 205            | 1            | 3                                 | 3                                | 259                             | 11.6                            | HHP          | IHP |
| 3.0SMCJ170                                | 3.0SMCJ170C  | 170                       | 189                              | 239.5          | 1            | 3                                 | 3                                | 304                             | 9.8                             | HHQ          | IHQ |
| 3.0SMCJ170A                               | 3.0SMCJ170CA | 170                       | 189                              | 217.5          | 1            | 3                                 | 3                                | 275                             | 11                              | HHR          | IHR |
| 3.0SMCJ180                                | 3.0SMCJ180C  | 180                       | 198                              | 253.8          | 1            | 3                                 | 3                                | 322                             | 9.3                             | HHS          | IHS |
| 3.0SMCJ180A                               | 3.0SMCJ180CA | 180                       | 198                              | 230.4          | 1            | 3                                 | 3                                | 292                             | 10.3                            | HHT          | IHT |
| 3.0SMCJ190                                | 3.0SMCJ190C  | 190                       | 209                              | 267.9          | 1            | 3                                 | 3                                | 340                             | 8.8                             | HHU          | IHU |
| 3.0SMCJ190A                               | 3.0SMCJ190CA | 190                       | 209                              | 243.2          | 1            | 3                                 | 3                                | 308                             | 9.7                             | HHV          | IHV |
| 3.0SMCJ200                                | 3.0SMCJ200C  | 200                       | 220                              | 282            | 1            | 3                                 | 3                                | 358                             | 8.4                             | HHW          | IHW |
| 3.0SMCJ200A                               | 3.0SMCJ200CA | 200                       | 220                              | 256            | 1            | 3                                 | 3                                | 324                             | 9.3                             | HHX          | IHX |
| 3.0SMCJ210                                | 3.0SMCJ210C  | 210                       | 231                              | 296.1          | 1            | 3                                 | 3                                | 376                             | 7.8                             | HHY          | IHY |
| 3.0SMCJ210A                               | 3.0SMCJ210CA | 210                       | 231                              | 268.8          | 1            | 3                                 | 3                                | 340                             | 8.8                             | HHZ          | IHZ |
| 3.0SMCJ220                                | 3.0SMCJ220C  | 220                       | 242                              | 310.2          | 1            | 3                                 | 3                                | 394                             | 7.6                             | HID          | IID |
| 3.0SMCJ220A                               | 3.0SMCJ220CA | 220                       | 242                              | 281.6          | 1            | 3                                 | 3                                | 356                             | 8.4                             | HIE          | IIE |



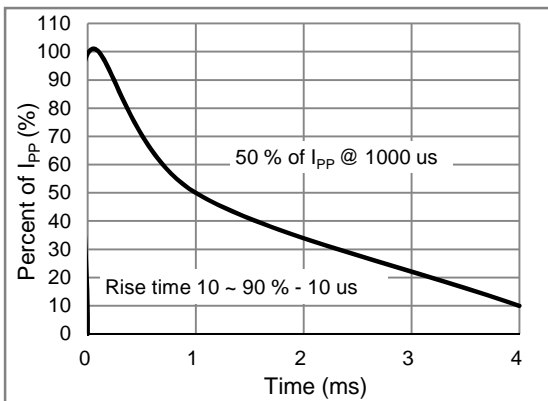
## 3.0SMCJ5.0~3.0SMCJ220CA



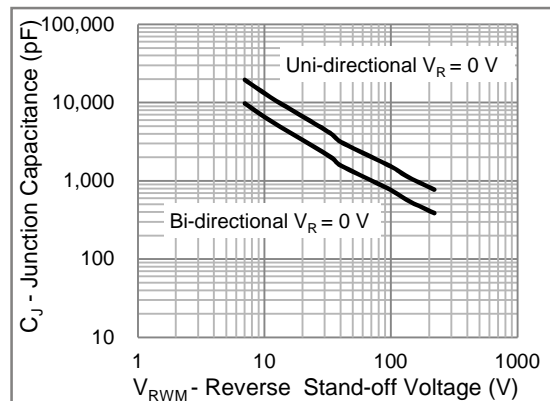
**Fig.1 Peak Pulse Power Rating**



**Fig.2 Derating Curve**



**Fig.3 10/1000us Pulse Waveform**

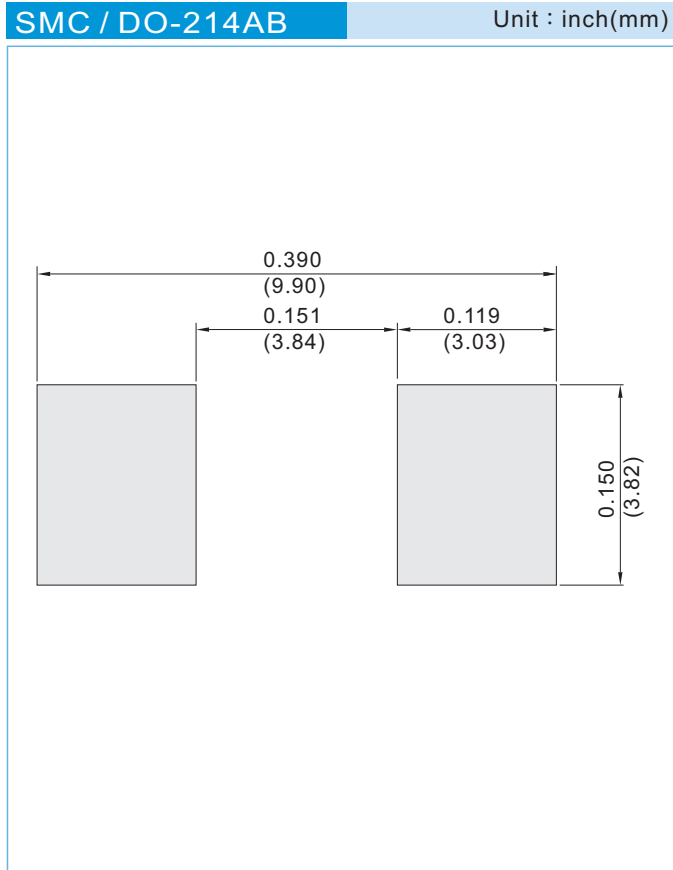


**Fig.4 Typical Capacitance**



## 3.0SMCJ5.0~3.0SMCJ220CA

### MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information
  - T/R - 3K per 13" plastic Reel
  - T/R - 0.8K per 7" plastic Reel



## 3.0SMCJ5.0~3.0SMCJ220CA

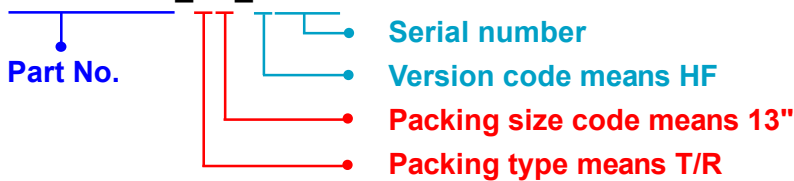
### Part No.\_packing code\_Version

3.0SMCJ5.0A\_R1\_00001

3.0SMCJ5.0A\_R2\_00001

For example :

**RB500V-40\_R2\_00001**



| Packing Code <b>XX</b>               |                      |                                  |                      | Version Code <b>XXXXX</b> |                      |                                       |
|--------------------------------------|----------------------|----------------------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| Packing type                         | 1 <sup>st</sup> Code | Packing size code                | 2 <sup>nd</sup> Code | HF or RoHS                | 1 <sup>st</sup> Code | 2 <sup>nd</sup> ~5 <sup>th</sup> Code |
| Tape and Ammunition Box (T/B)        | A                    | N/A                              | 0                    | HF                        | 0                    | serial number                         |
| Tape and Reel (T/R)                  | R                    | 7"                               | 1                    | RoHS                      | 1                    | serial number                         |
| Bulk Packing (B/P)                   | B                    | 13"                              | 2                    |                           |                      |                                       |
| Tube Packing (T/P)                   | T                    | 26mm                             | X                    |                           |                      |                                       |
| Tape and Reel (Right Oriented) (TRR) | S                    | 52mm                             | Y                    |                           |                      |                                       |
| Tape and Reel (Left Oriented) (TRL)  | L                    | PANASERT T/B CATHODE UP (PBCU)   | U                    |                           |                      |                                       |
| FORMING                              | F                    | PANASERT T/B CATHODE DOWN (PBCD) | D                    |                           |                      |                                       |