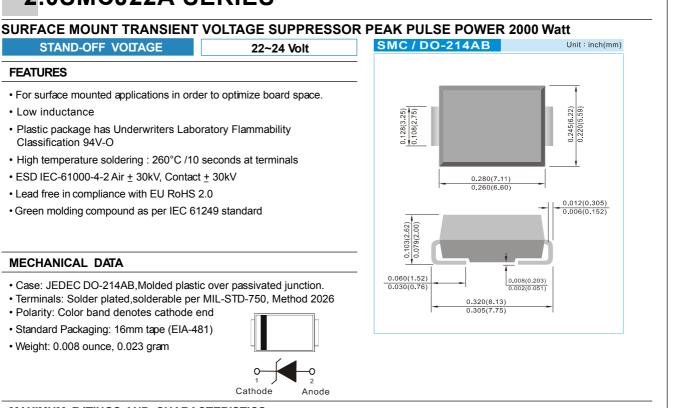


**FEATURES** 



#### MAXIMUM RATINGS AND CHARACTERISTICS

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

| Rating   | Symbol               | Value                      | Units  |
|--|----------------------|----------------------------|--------|
| Peak Pulse Power Dissipation ( $I_{PP} \times V_{CMAX}$ ) at $T_A = 25^{\circ}C$ (Notes 1,2,4) | P <sub>PP</sub>      | 2000                       | Watts  |
| Peak Pulse Current on tp=10/1000µs waveform (Notes 1)  | I <sub>PPM</sub>     | See table                  | Amps   |
| Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load (Notes 3)   | I <sub>FSM</sub>     | 200                        | Amps   |
| Typical Thermal Resistance Junction to Air (Notes 2)   | R <sub>eja</sub>     | 82                         | °C / W |
| ESD IEC-61000-4-2 (Air)<br>ESD IEC-61000-4-2 (Contact)   | Vesd                 | <u>+</u> 30<br><u>+</u> 30 | kV     |
| Operating Junction and Storage Temperature Range   | T_J,T <sub>STG</sub> | -55 to +150                | °C     |

| Part Number | Reverse<br>Stand-off<br>Voltage |           | kdown<br>age | Test<br>Current | Reverse<br>Leakage | Max. Clamp<br>Voltage<br>10/1000µs | Peak Pulse<br>Current<br>10/1000μs |                 |
|-------------|---------------------------------|-----------|--------------|-----------------|--------------------|------------------------------------|------------------------------------|-----------------|
|             | VRWM (Notes 5)                  | Vbr @ I t |              | ΙT              | Ir@Vrwm            | Vc @ Ipp                           | Ipp                                | Marking<br>Code |
|             |                                 | Min.      | Max.         |                 |                    |                                    |                                    |                 |
|             | V                               | V         | V            | mA              | μA                 | V                                  | А                                  |                 |
| 2.0SMCJ22A  | 22                              | 24.4      | 28           | 1               | 1                  | 35.5                               | 56.3                               | AEX             |
| 2.0SMCJ24A  | 24                              | 26.7      | 30.7         | 1               | 1                  | 38.9                               | 51.4                               | AEZ             |

NOTES :

1. Non-repetitive current pulse.

2. Mounted on  $2mm^2$  ( 0.013mm thick) land areas.

3. Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle= 4 pulses per minutes maximum.

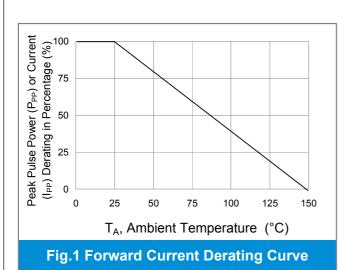
4. Peak pulse power waveform is 10/1000 µs.

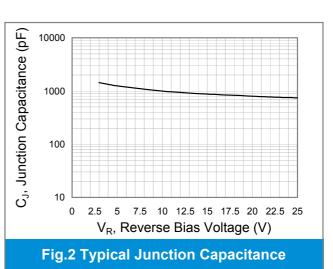
5. A transient suppressor is selected according to the working peak reverse voltage (VRWM), which should be equal to or greater than the DC or continuous peak operating voltage level.





# 2.0SMCJ22A SERIES





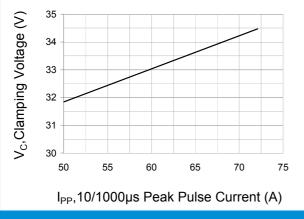
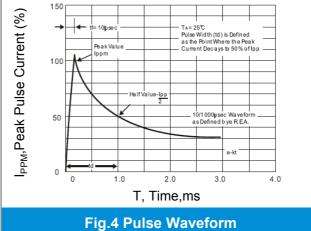
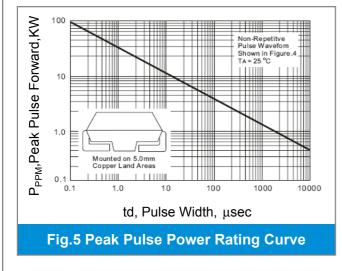
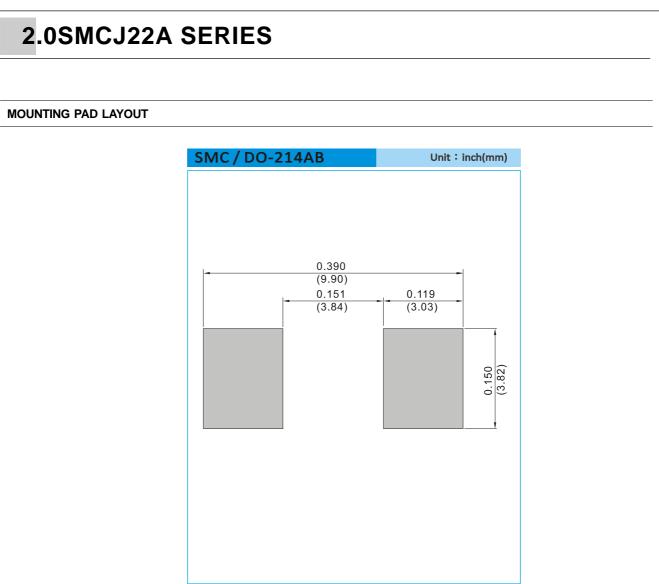


Fig.3 Typical Peak Clamping Voltage









#### **ORDER INFORMATION**

Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel





## 2.0SMCJ22A SERIES

### Part No\_packing code\_Version

2.0SMCJ22A\_R1\_00001 2.0SMCJ22A\_R2\_00001

### For example :

RB500V-40\_R2\_00001

Part No.

Serial number

\_

Version code means HF

Packing size code means 13"

• Packing type means T/R

| Packing Code XX                         |                      |                                     |                      |            | Version Code XXXXX   |                                       |  |
|---|----------------------|-------------------------------------|----------------------|------------|----------------------|---------------------------------------|--|
| 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<br>(T/B)        | Α                    | N/A                                 | 0                    | HF         | 0                    | serial number                         |  |
| Tape and Reel<br>(T/R)                  | R                    | 7"                                  | 1                    | RoHS       | 1                    | serial number                         |  |
| Bulk Packing<br>(B/P)                   | В                    | 13"                                 | 2                    |            |                      |                                       |  |
| Tube Packing<br>(T/P)                   | Т                    | 26mm                                | X                    |            |                      |                                       |  |
| Tape and Reel (Right Oriented)<br>(TRR) | S                    | 52mm                                | Y                    |            |                      |                                       |  |
| Tape and Reel (Left Oriented)<br>(TRL)  | L                    | PANASERT T/B CATHODE UP<br>(PBCU)   | U                    |            |                      |                                       |  |
| FORMING                                 | F                    | PANASERT T/B CATHODE DOWN<br>(PBCD) | D                    |            |                      |                                       |  |





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