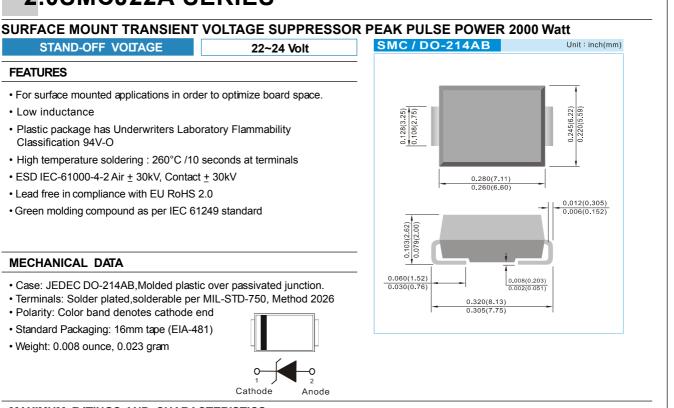


**FEATURES** 



#### 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) ESD IEC-61000-4-2 (Contact)	Vesd	<u>+</u> 30 <u>+</u> 30	kV
Operating Junction and Storage Temperature Range	T_J,T <sub>STG</sub>	-55 to +150	°C

Part Number	Reverse Stand-off Voltage		kdown age	Test Current	Reverse Leakage	Max. Clamp Voltage 10/1000µs	Peak Pulse Current 10/1000μs	
	VRWM (Notes 5)	Vbr @ I t		ΙT	Ir@Vrwm	Vc @ Ipp	Ipp	Marking 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.

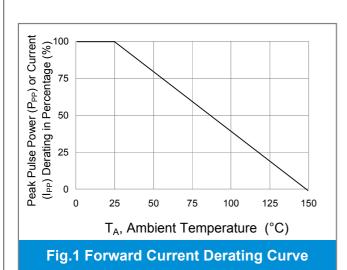
4. Peak pulse power waveform is 10/1000 µs.

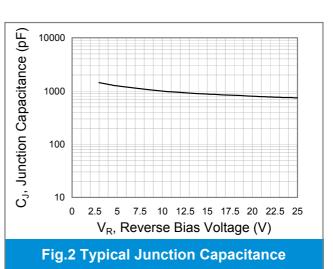
5. A transient suppressor is selected according to the working peak reverse voltage (VRWM), which should be equal to or greater than the DC or continuous peak operating voltage level.





# 2.0SMCJ22A SERIES





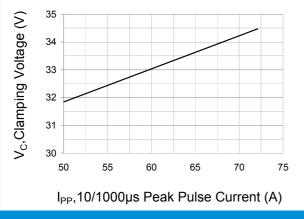
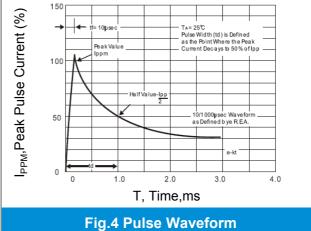
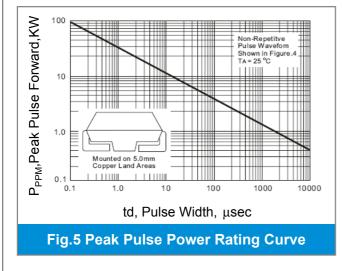
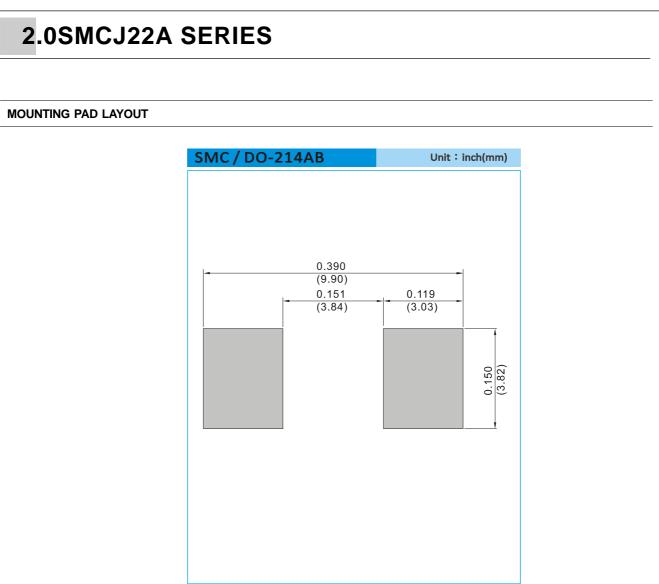


Fig.3 Typical Peak Clamping Voltage









#### **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 (T/B)	Α	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	Т	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				





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