

FEATURES

· Low inductance

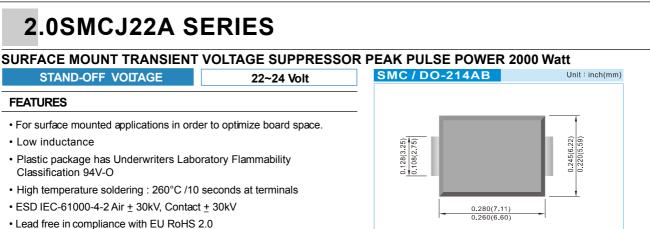
Classification 94V-O

· For surface mounted applications in order to optimize board space.

· Plastic package has Underwriters Laboratory Flammability

• High temperature soldering : 260°C /10 seconds at terminals

STAND-OFF VOLTAGE



• Green molding compound as per IEC 61249 standard

• ESD IEC-61000-4-2 Air ± 30kV, Contact ± 30kV

• Lead free in compliance with EU RoHS 2.0

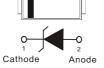
MECHANICAL DATA

Case: JEDEC DO-214AB, Molded plastic over passivated junction.

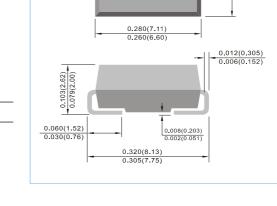
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end

Standard Packaging: 16mm tape (EIA-481)

• Weight: 0.008 ounce, 0.023 gram



22~24 Volt



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 ($I_{_{\rm PP}} x V_{_{\rm CMAX}})$ at $ T_{_{\rm A}} {=} 25^{\rm o} C$ (Notes 1,2,4)	P _{PP}	2000	Watts
Peak Pulse Current on tp=10/1000 μ s waveform (Notes 1)	I _{PPM}	See table	Amps
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load (Notes 3)	I _{FSM}	200	Amps
Typical Thermal Resistance Junction to Air (Notes 2)	$R_{_{\!\!\!\!\!\!\thetaJA}}$	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 _{STG}	-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	Marking Code
	VRWM (Notes 5)	VBR	@ Ⅰ⊤	ΙT	Ir@Vrwm	Vc @ Ipp	PP	
		Min.	Max.				IPP	
	V	V	V	mA	μA	V	A	
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.

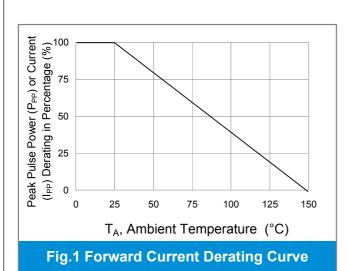
4. Peak pulse power waveform is 10/1000 µs.

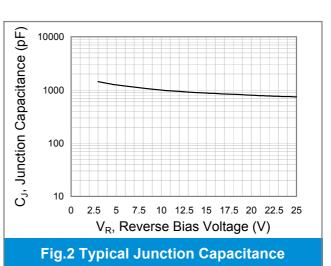
5. A transient suppressor is selected according to the working peak reverse voltage (VRWM), which should be equal to or greater than the DC or continuous peak operating voltage level.





2.0SMCJ22A SERIES





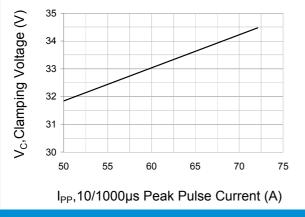
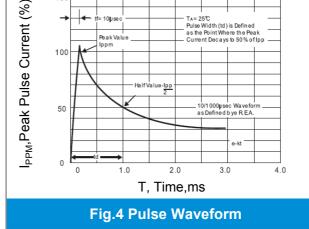
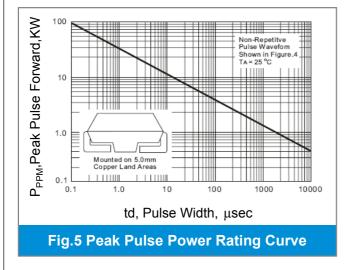


Fig.3 Typical Peak Clamping Voltage



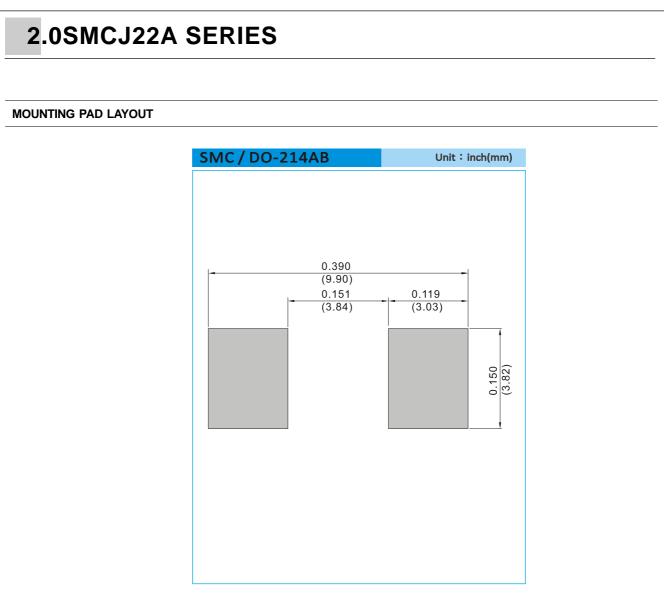
150

10µs



April 18,2018-REV.05





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.



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Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code XX					Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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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