



SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR PEAK PULSE POWER 5000 Watt

STAND-OFF VOLTAGE

36 Volt

FEATURES

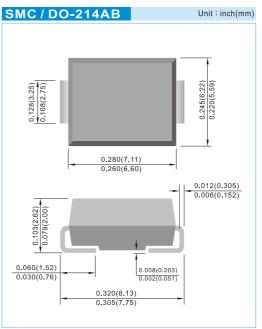
- · Glass passivated junction
- · Low inductance
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- High temperature soldering : 260°C /10 seconds at terminals
- AEC-Q101 qualified
- ESD IEC-61000-4-2 Air + 30kV, Contact + 30kV
- · Lead free in compliance with EU RoHS 2.0
- 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)
- Weight: 0.0082 ounce, 0.232 gram







MAXIMUM RATINGS AND CHARACTERISTICS

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

Rating	Symbol	Value	Units
Peak Power Dissipation (tp=10/1000μs waveform) (Notes 1)	P _{pp}	5000	Watts
Peak Pulse Current on (tp=10/1000μs waveform) (Notes 1)	I _{PPM}	See table	Amps
Typical Thermal Resistance Junction to Air (Notes 2)	R _{eJA}	110	°C/W
ESD IEC-61000-4-2 (Air) ESD IEC-61000-4-2 (Contact)	Vesd	<u>+</u> 30 <u>+</u> 30	kV
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	300	Amps
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150	°C

NOTES:

- 1.Non-repetitive current pulse.
- 2. Mounted on a FR4 PCB, single-sided copper, mini pad.
- 3.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.





Part Number	Reverse Stand-off Voltage	Breakdown Voltage		Test Current	Reverse Leakage	Max.Clamp Voltage 10/1000μs	Peak Pulse Current 10/1000μs		
	VRWM (Notes 3)	Vbr @ It		lτ	IR @ VRWM	Vc @ IPP	l PP	Marking Code	
		Min.	Max.	1					
	V	V	V	mA	μА	V	Α		
5.0SMCJ36A-AU	36	40	46	1	3	58.1	86.1	5HFP	





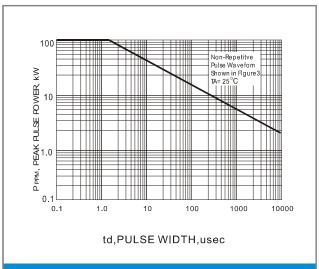


Fig.1 PEAK PULSE POWER RATING VERSUS PULSE TIME CURVE

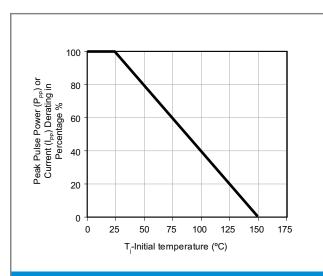


Fig.2 PEAK PULSE POWER OR CURRENT DERATING CURVE

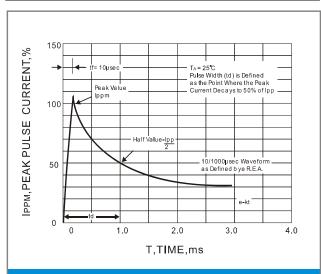


Fig.3 PULSE WAVEFORM

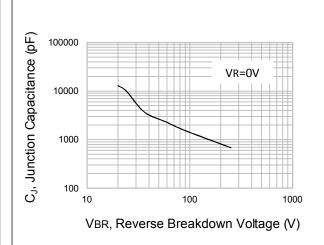
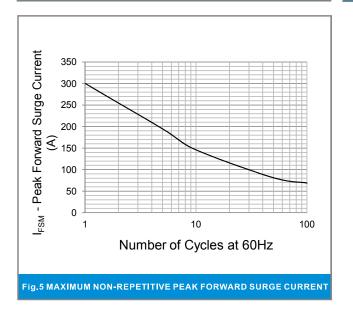


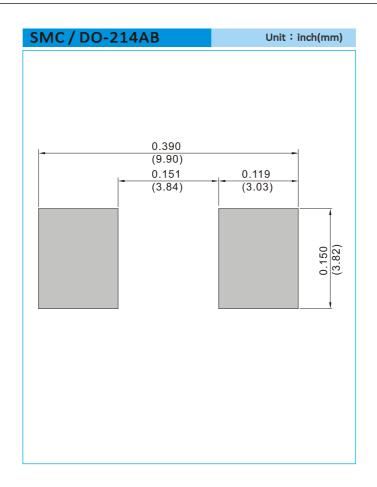
Fig.4 TYPICAL JUNCTION CAPACITANCE







MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel





Part No_packing code_Version

5.0SMCJ36A-AU_R1_000A1 5.0SMCJ36A-AU_R2_000A1

For example:



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