



### SURFACE MOUNT RECTIFIER

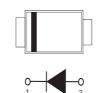
VOLTAGE 50 to 1000 Volt CURRENT 2 Ampere

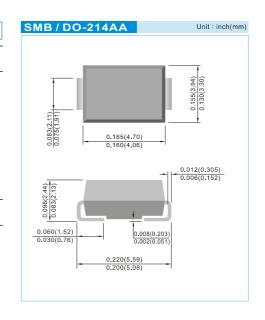
### **FEATURES**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications in order to optimize board space
- · Easy pick and place
- · Glass passivated iunction
- Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

### **MECHANICAL DATA**

- Case: JEDEC DO-214AA molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.003 ounces, 0.092 grams





### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase , half wave ,60Hz, resistive or inductive load. For capacitive load , derate current by 20%.

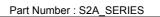
PARAMETER	SYMBOL	S2A	S2B	S2D	S2G	S2J	S2K	S2M	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	٧
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	2							Α
Peak Forward Surge Current : 8.3ms Single Half Sine-Wave Superimposed On Rated Load	I <sub>FSM</sub>	60							А
Peak Forward Surge Current : Square Wave, t=1ms, Non-Repetitive 1 Cycle Peak Value	I <sub>FSM</sub>	130						Α	
Maximum Forward Voltage at 2A	V <sub>F</sub>	1.1						٧	
Maximum DC Reverse Current at Rated DC Blocking $T_J = 25^{\circ}C$ Voltage $T_J = 125^{\circ}C$					μА				
Maximum Junction Capacitance (Note 1)	C <sub>J</sub>	30					pF		
Typical Junction Resistance (Note 2)	R <sub>eJL</sub>	16				°C / W			
Operating Junction and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-55 to +150				°C			

#### NOTES

- 1.Measured at 1MHZ and applied  $\ensuremath{V_{R}\text{=-}4}$  volts.
- 2.8 x 8mm<sup>2</sup> pads.

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### **RATING AND CHARACTERISTIC CURVES**

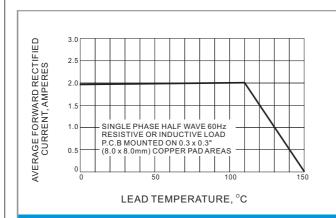


Fig.1 FORWARD CURRENT DERATING CURVE

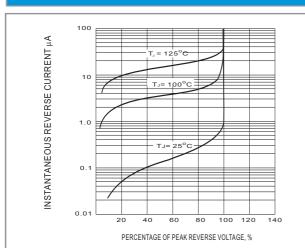
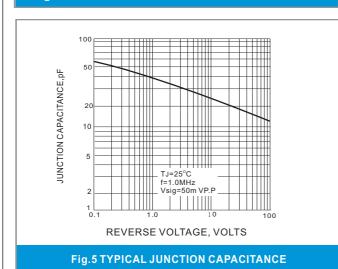


Fig.3-TYPICAL REVERSE CHARACTERISTIC



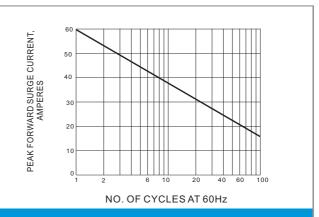


Fig.2 MAXIMUM NON REPETITIVE PEAK SURGE CURRENT

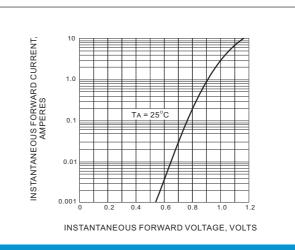


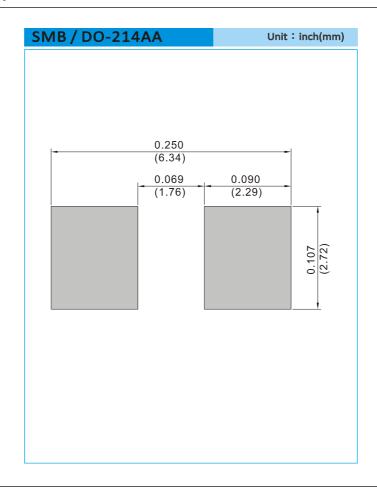
FIG.2 TYPICAL FORWARD CHARACTERISTICS

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### **MOUNTING PAD LAYOUT**



### **ORDER INFORMATION**

· Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel

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Part Number : S2A\_SERIES

# S2A~S2M

### Part No\_packing code\_Version

S2A\_R1\_00001 S2A\_R2\_00001

## For example:



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	Х					
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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