



SURFACE MOUNT RECTIFIER

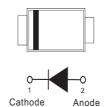
VOLTAGE 50 to 1000 Volt CURRENT 2 Ampere

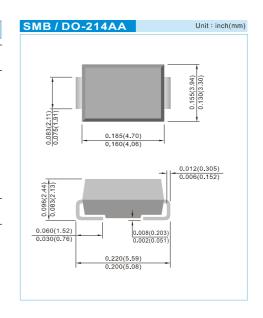
FEATURES

- 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 _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current	I _{F(AV)}	2							А
Peak Forward Surge Current : 8.3ms Single Half Sine-Wave Superimposed On Rated Load	I _{FSM}	60							Α
Peak Forward Surge Current : Square Wave, t=1ms, Non- Repetitive 1 Cycle Peak Value	I _{FSM}	130						А	
Maximum Forward Voltage at 2A	V _F	1.1					٧		
Maximum DC Reverse Current at Rated DC Blocking T_J =25°C Voltage T_J =125°C	I _R	1 125				μА			
Maximum Junction Capacitance (Note 1)	CJ	30					pF		
Typical Junction Resistance (Note 2)	R _{eJL}	16				°C / W			
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150				°C			

NOTES

- 1.Measured at 1MHZ and applied $\ensuremath{V_{R}\text{=-}4}$ volts.
- 2.8 x 8mm² pads.





RATING AND CHARACTERISTIC CURVES

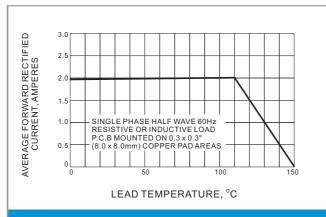


Fig.1 FORWARD CURRENT DERATING CURVE

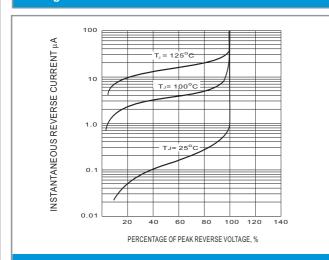
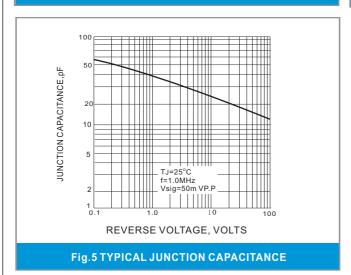


Fig.3-TYPICAL REVERSE CHARACTERISTIC



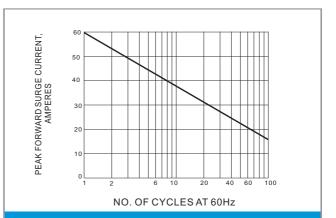


Fig.2 MAXIMUM NON REPETITIVE PEAK SURGE CURRENT

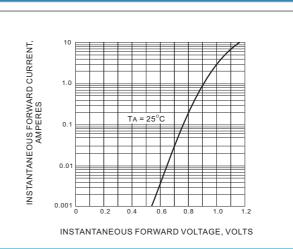
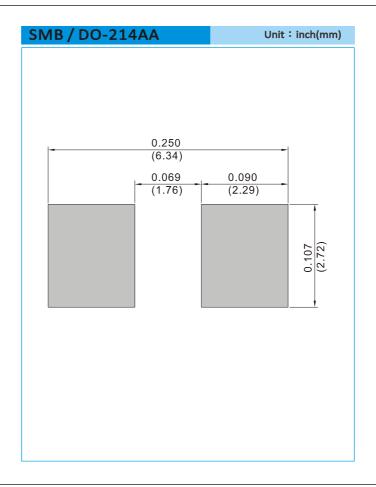


FIG.2 TYPICAL FORWARD CHARACTERISTICS





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

S2A_R1_00001 S2A_R2_00001

For example:



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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