



SURFACE MOUNT RECTIFIER

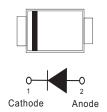
VOLTAGE 50 to 1000 Volts CURRENT 2 Amperes

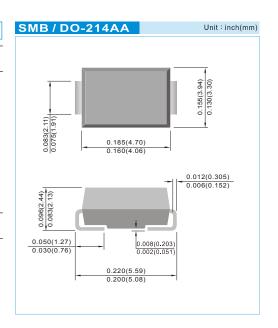
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications
- · Easy pick and place
- · Glass passivated iunction
- Lead free in comply with EU RoHS 2011/65/EU directives
- Green molding compound as per IEC61249 Std. . (Halogen Free)
- Acqire quality system certificate: TS16949
- AEC-Q101 qualified

MECHANICAL DATA

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





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		S2A-AU	S2B-AU	S2D-AU	S2G-AU	S2J-AU	S2K-AU	S2M-AU	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	٧
Maximum RMS Voltage		35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	٧
aximum Average Forward Current at T_L =110°C $I_{F(AV)}$ 2					А				
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		60						А	
Maximum Forward Voltage at 2A		1.1						٧	
Maximum DC Reverse Current at Rated DC Blocking T_j =25°C Voltage T_j =125°C		1 125					μΑ		
Maximum Junction Capacitance (Note 1)	Capacitance (Note 1) C _J 30					pF			
Typical Junction Resistance (Note 2)		16					°C / W		
Operating Junction and Storage Temperature Range		-55 to +150					°C		

NOTES

- 1.Measured at 1.0 MHZ and applied Vr=4.0 volts.
- $2.8 \times 8 \text{mm}^2 \text{ pads}.$





RATING AND CHARACTERISTIC CURVES

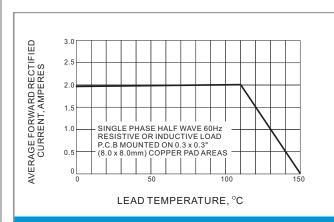


Fig.1 FORWARD CURRENT DERATING CURVE

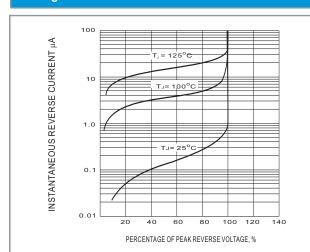
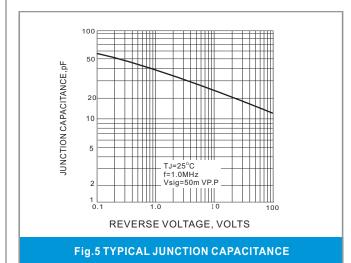


Fig.3-TYPICAL REVERSE CHARACTERISTIC



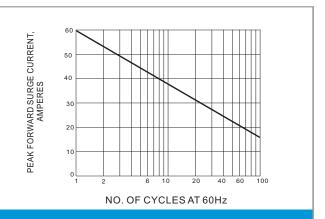


Fig.2 MAXIMUM NON REPETITIVE PEAK SURGE CURRENT

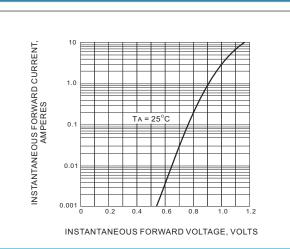
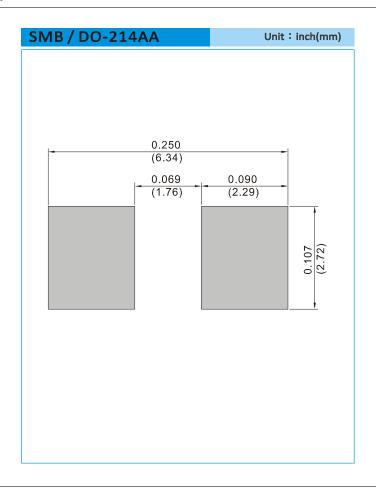


FIG.2 TYPICAL FORWARD CHARACTERISTICS





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.5K per 7" plastic Reel

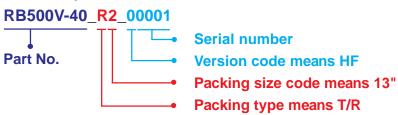




Part No_packing code_Version

S2A-AU_R1_000A1 S2A-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	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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