



SURFACE MOUNT RECTIFIER

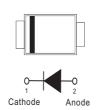
VOLTAGE 50 to 1000 Volt CURRENT 3 Ampere

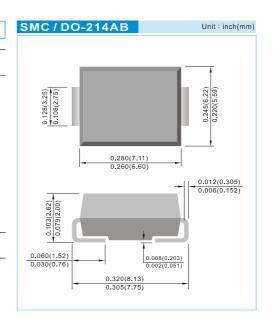
FEATURES

- 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 junction
- AEC-Q101 qualified
- 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
- 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, 0.2325 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	SYMBOL	S3A-AU	S3B-AU	S3D-AU	S3G-AU	S3J-AU	S3K-AU	S3M-AU	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		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 Rectified Current at T _L = 75°C	I _{F(AV)}	3					А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	200						А	
Maximum Forward Voltage at 3A	V _F	1.2				V			
Maximum DC Reverse Current at Rated DC Blocking T_j =25°C Voltage T_j =125°C	I _R	1 250				μΑ			
Maximum Junction Capacitance (Note 1)	C	53				pF			
Typical Junction Resistance (Note 2)	$R_{_{ heta JA}}$	13 47				°C / W			
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150			°C				

NOTES .

- 1.Measured at 1 MHZ and applied V_R=4 volts.
- 2.8mm²(0.013mm thick)land areas.





RATING AND CHARACTERISTIC CURVES

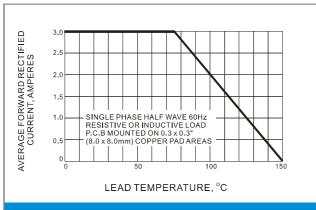


Fig.1 FORWARD CURRENT DERATING CURVE

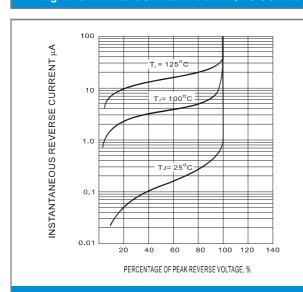
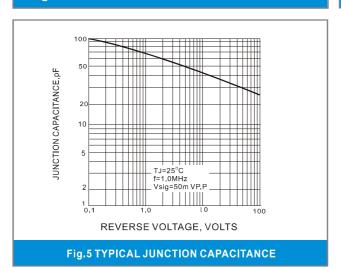


Fig.3-TYPICAL REVERSE CHARACTERISTIC



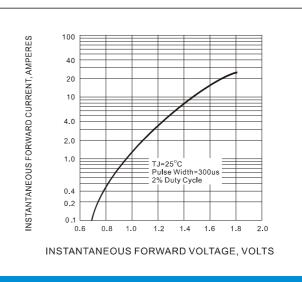


Fig.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

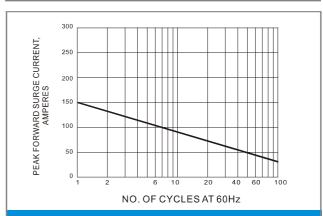
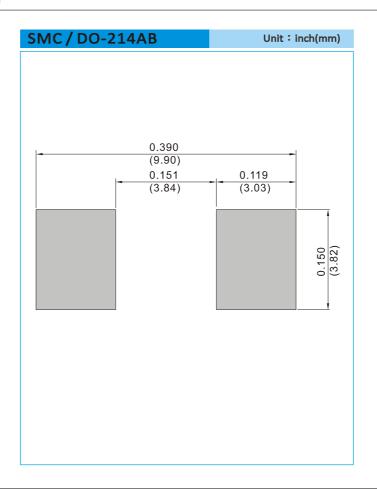


Fig.4 MAXIMUM NON REPETITIVE PEAK SURGE CURRENT





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel

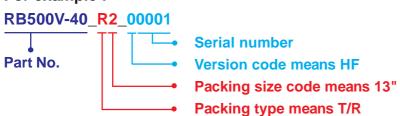




Part No_packing code_Version

S3A-AU_R1_000A1 S3A-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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