



SURFACE MOUNT RECTIFIER

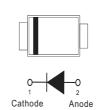
VOLTAGE 50 to 1000 Volt CURRENT 3 Ampere

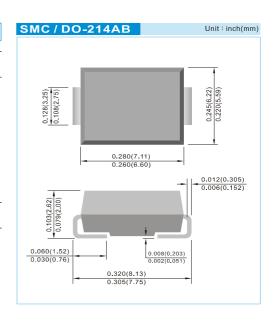
FEATURES

- 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
- 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)
- Approx. Weight: 0.2325 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	S3A	S3B	S3D	S3G	S3J	S3K	S3M	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 Rectified Current at T _L = 75°C	I _{F(AV)}	3							Α
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 $T_J = 25^{\circ}C$ Voltage $T_J = 125^{\circ}C$	I _R	1 250						μА	
Maximum Junction Capacitance (Note 1)	C	53						pF	
Typical Junction Resistance (Note 2)	R _{eJL} R _{eJA}	10 40				°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. Mounted on a FR-4 PCB, single-sided copper, with 100cm² copper pad area





RATING AND CHARACTERISTIC CURVES

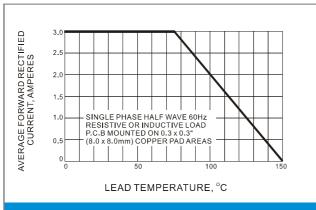


Fig.1 FORWARD CURRENT DERATING CURVE

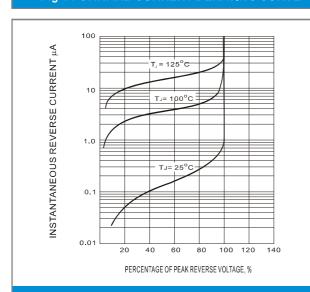
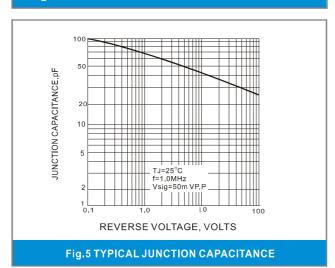


Fig.3-TYPICAL REVERSE CHARACTERISTIC



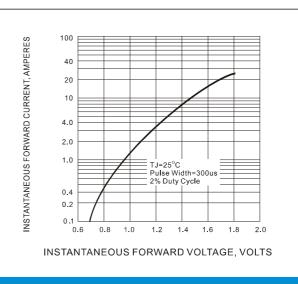


Fig.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

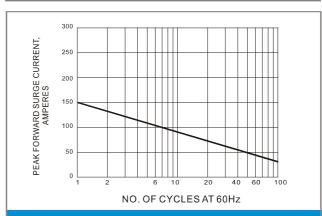
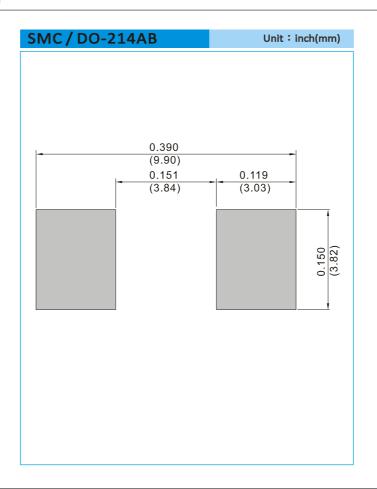


Fig.4 MAXIMUM NON REPETITIVE PEAK SURGE CURRENT





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel

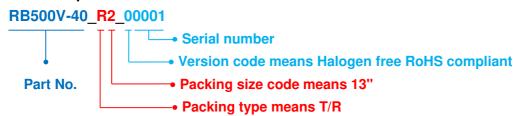




Part No._packing code_Version

S3A_R1_00001 S3A_R2_00001

For example:



Packing Code XX				Version Code	Serial number XXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HSF Level	1 st Code	2 nd ~5 th Code	
Tape and Ammunition Box (T/B)	A	N/A	0	Halogen free RoHS compliant	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS compliant	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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