

SURFACE MOUNT RECTIFIER

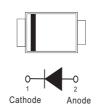
VOLTAGE 50 to 1000 Volt CURRENT 3 Ampere

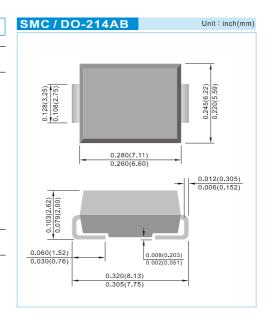
FEATURES

- 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	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							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							μА
Maximum Junction Capacitance (Note 1)	CJ	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

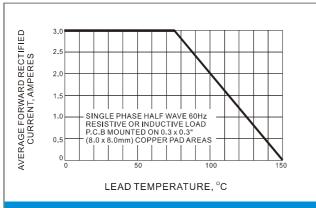


Fig.1 FORWARD CURRENT DERATING CURVE

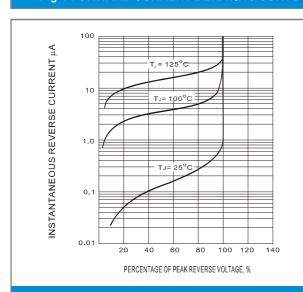
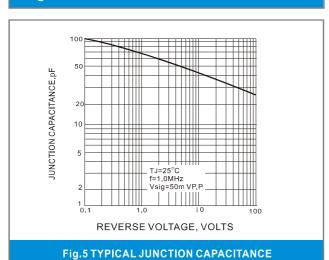


Fig.3-TYPICAL REVERSE CHARACTERISTIC



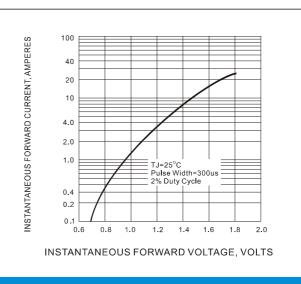


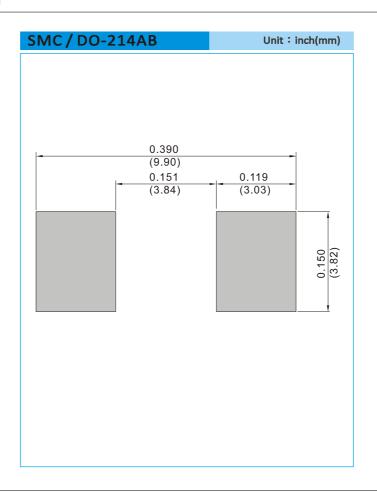
Fig.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



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



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