

SURFACE MOUNT RECTIFIER

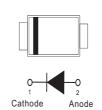
VOLTAGE 50 to 1000 Volt CURRENT 3 Ampere

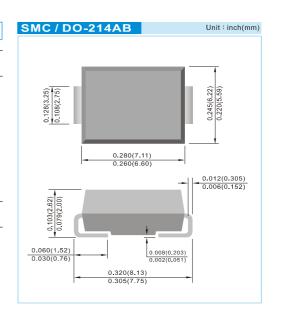
FEATURES

- 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							Α
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)	C	53							pF
Typical Junction Resistance (Note 2)	$R_{_{\theta JA}}$	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

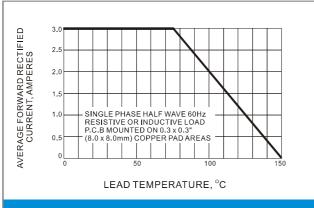


Fig.1 FORWARD CURRENT DERATING CURVE

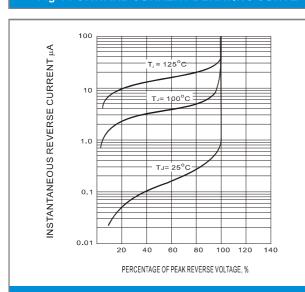
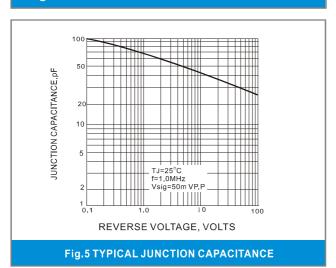


Fig.3-TYPICAL REVERSE CHARACTERISTIC



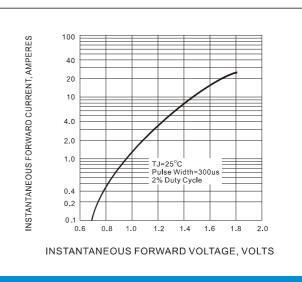


Fig.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

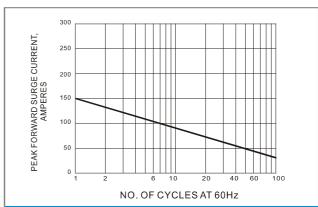
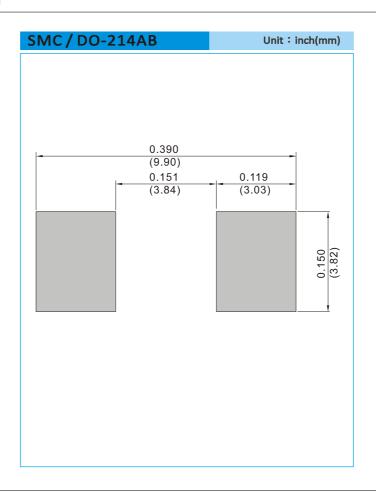


Fig.4 MAXIMUM NON REPETITIVE PEAK SURGE CURRENT



MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel



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