

SURFACE MOUNT RECTIFIER

VOLTAGE 50~1000 Volt CURRENT 5 Ampere

FEATURES

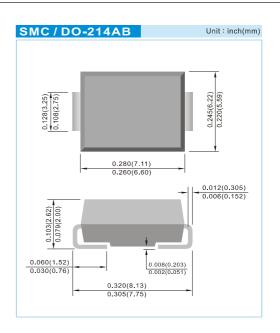
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- · Easy pick and place
- · Glass passivated junction
- Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: JEDEC SMC / 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 ounces, 0.23 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	S5A	S5B	S5D	S5G	S5J	S5K	S5M	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	I _{F(AV)}	5							А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	275							А
Rating for Fusing (t<8.3ms)	I²t	313						A ² sec	
Maximum Forward Voltage at 5A	V _F	1.1						٧	
Maximum DC Reverse Current at Rated DC Blocking T_J =25°C Voltage T_J =125°C	I _R	10 250						μА	
Typical Junction Capacitance (NOTES 1)	CJ	80 46					46	pF	
Typical Junction Resistance (NOTES 2)	$R_{_{\theta JA}} R_{_{\theta JL}}$	75 10						°C / W	
Operating Junction and Storage Temperature Range	T_J,T_STG	-55 to +150							°C

NOTES

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



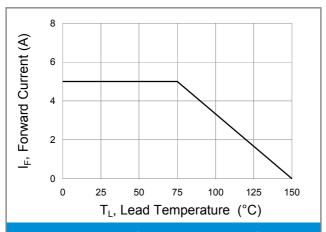


Fig.1 Forward Current Derating Curve

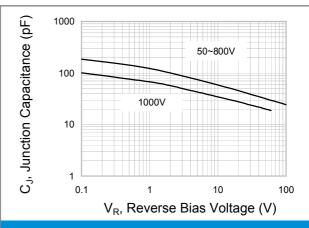


Fig.2 Typical Junction Capacitance

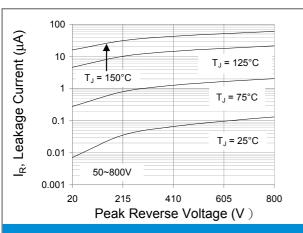


Fig.3 Typical Reverse Characteristics

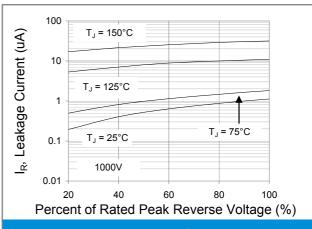


Fig.4 Typical Reverse Characteristics

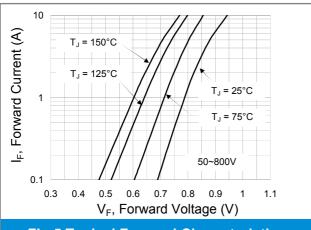


Fig.5 Typical Forward Characteristics

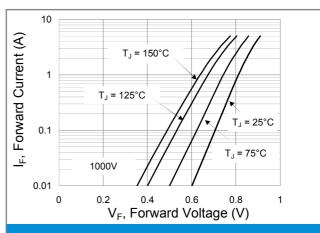
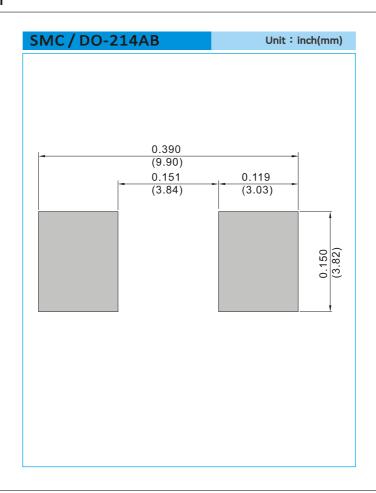


Fig.6 Typical Forward Characteristics



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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