



S3A~S3M

SURFACE MOUNT RECTIFIER

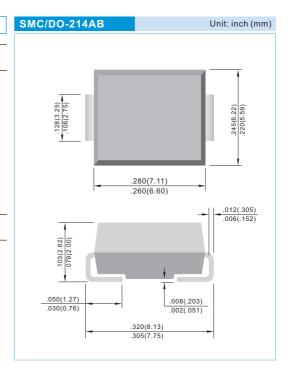
VOLTAGE 50 to 1000 Volts CURRENT 3.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications
- · Low profile package
- Built-in strain relief
- Easy pick and place
- glass passivated iunction
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: JEDEC DO-214AB molded plastic
- Terminals:Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity: Indicated by cathode band
- Standard packaging: 16mm tape (EIA-481)
- Weight: 0.007 ounce, 0.21 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	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)}	3.0							А
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	100						А	
Maximum Forward Voltage at 3.0A	V _F	1.2							V
Maximum DC Reverse Current at T _J =25°C Rated DC Blocking Voltage T _J =125°C	I _R	5.0 250							uA
Maximum Junction capacitance (Note 1)	CJ	53							pF
Typical Junction Resistance(Note 2)	R _{eJL} R _{eJA}	13 47							°C / W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 TO +150							°C

NOTES:

- 1.Measured at 1.0 MHZ and applied Vr=4.0 volts.
- 2.8.0mm²(.013mm thick)land areas.

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RATING AND CHARACTERISTIC CURVES

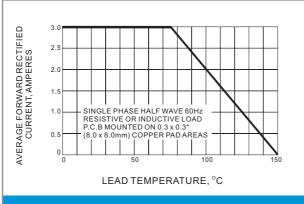


Fig.1 FORWARD CURRENT DERATING CURVE

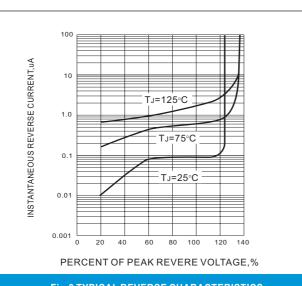
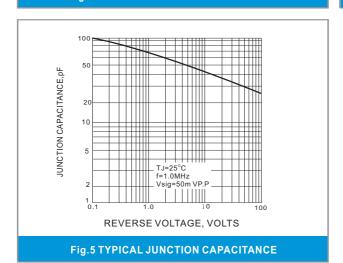


Fig.3 TYPICAL REVERSE CHARACTERISTICS



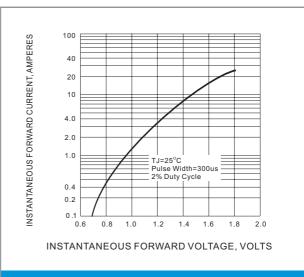


Fig.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

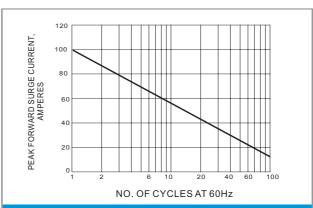


Fig.4 MAXIMUM NON REPETITIVE PEAK SURGE CURRENT

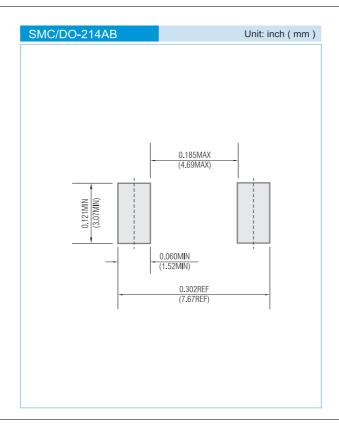
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MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.5Kper 7" plastic Reel

LEGAL STATEMENT

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