



SURFACE MOUNT RECTIFIER

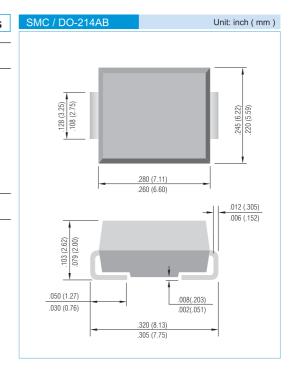
VOLTAGE 50 to 1000 Volts CURRENT 3.0 Amperes

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
- Lead free in comply 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		50	100	200	400	600	800	1000	٧
Maximum RMS Voltage		35	70	140	280	420	560	700	٧
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							Α
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	1.0 250							μΑ
Maximum Junction capacitance (Note 1)	C	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.





RATING AND CHARACTERISTIC CURVES

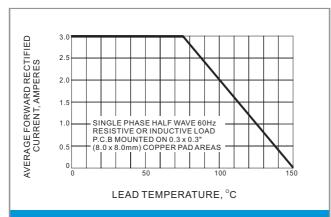


Fig.1 FORWARD CURRENT DERATING CURVE

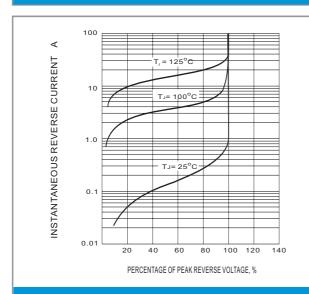
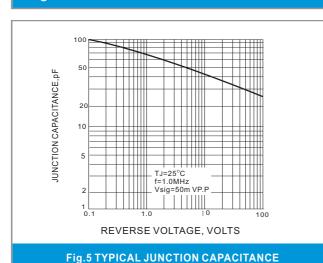


Fig.3-TYPICAL REVERSE CHARACTERISTIC



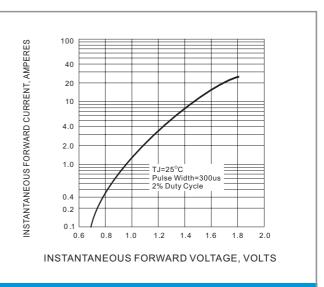


Fig.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

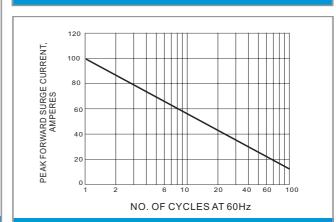
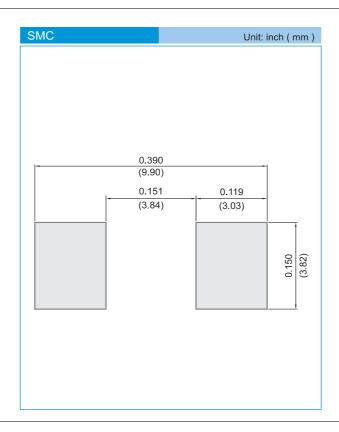


Fig.4 MAXIMUM NON REPETITIVE PEAK SURGE CURRENT





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.5Kper 7" plastic Reel





Part No_packing code_Version

S3A_R1_00001 S3A_R1_10001

S3A_R2_00001

S3A_R2_10001

For example:



Packing Code XX				Version Code XXXXX					
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code			
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number			
Tape and Reel (T/R)	R	7"	1	RoHS	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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