S3A-S3M

3.0AMPS. Surface Mount Rectifiers

0.245(6.22) 0.220(5.59)

SMC/DO-214AB

0.280(7.11)

0.126(3.20)

0.114(2.90)



Features

- ♦ For surface mounted application
- ♦ Glass passivated junction chip.
- ♦ Low forward voltage drop
- ♦ High current capability
- ♦ Easy pick and place
- High surge current capability
- Plastic material used carries Underwriters Laboratory Classification 94V-0
- High temperature soldering:
- ♦ 260°C / 10 seconds at terminals

0.012(0.305) 0.103(2.62) 0.079(2.06) 0.060(1.52) 0.060(1.52) 0.008(0.203) MAX 0.320(8.13) 0.305(7.75)

Mechanical Data

♦ Case: Molded plastic

Terminals: Pure tin plated, lead free.Polarity: Indicated by cathode band

♦ Weight: 0.21 gram

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	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 @T _L =105 °C	I _(AV)	3.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	100							Α
Maximum Instantaneous Forward Voltage @ 3.0A	V_{F}	1.15							V
Maximum DC Reverse Current @ T _A =25 °C at Rated DC Blocking Voltage @ T _A =125 °C	I _R	10.0 250							uA uA
Typical Reverse Recovery Time (Note 1)	Trr	1.5							uS
Typical Junction Capacitance (Note 2)	Cj	60							pF
Typical Thermal Resistance (Note 3)	R _{øJL} R _{øJA}	13 47							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	Тѕтс	-55 to +150							°C

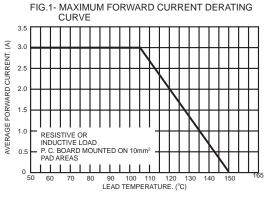
Notes:

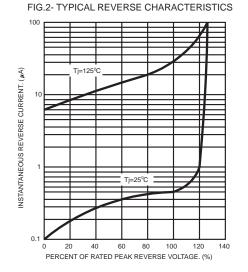
- 1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
- 2. Measured at 1 MHz and Applied V_R=4.0 Volts
- 3. Measured on P.C. Board with 0.4" x 0.4" (10mm x 10mm) Copper Pad Areas.

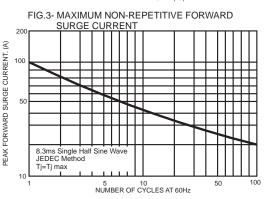
S3A-S3M

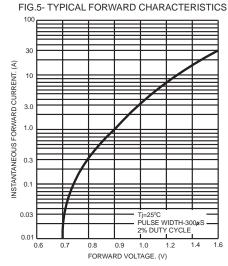
3.0AMPS. Surface Mount Rectifiers

RATINGS AND CHARACTERISTIC CURVES (S3A THRU S3M)









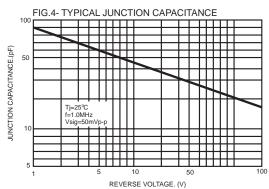
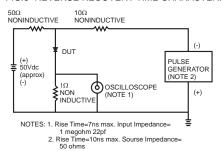
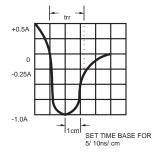


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





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