

Surface Mount Glass Passivated Rectifier

Features

- Glass passivated chip junction
- Built in strain relief
- High current capability
- Low forward voltage drop
- Fast switching speed for high efficiency
- High temperature Soldering guaranteed: 260 ℃/ 10 seconds at terminals
- RoHS and REACH compliance

Mechanical Data





DO-214AB (SN

	COMP
AC)	

Case:	JEDEC DO-214AB(SMC), transfer molded plastic
Epoxy:	Meets UL 94V-0 flammability rating
Terminals:	Solder plated, solderable per MIL-STD 750, Method 2026
Polarity:	Cathode indicated by color band
Mounting position:	Any
Weight:	0.007 ounce, 0.25 gram

Maximum Ratings (*T* Ambient=25°C unless noted otherwise)

Symbol	Description	S3A	S3B	S3D	S3G	S3J	S3K	S3M	Unit	Conditions
VRRM	Max Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	v	
VRMS	Max RMS Voltage	35	70	140	280	420	560	700	v	
VDC	Max DC Blocking Voltage	50	100	200	400	600	800	1000	v	
I(AV)	Max Average Forward Rectified Current at Ambient Temperature	3.0						А	TL=75℃ (note 2)	
IFSM	Peak Forward Surge Current	100						Α	8.3ms single half sine-wave (JEDEC)	
trr	Maximum Reverse Recovery Time	2.5						μS	IF=0.5A, IR=1.0A, IRR=0.25A	
TJ,TSTG	Operating and Storage Temperature Range	-55 to +150						ĉ		

Electrical Characteristics (T Ambient=25°C unless noted otherwise)

Symbol	Description	S3A	S3B	S3D	S3G	S3J	S3K	S3M	Unit	Conditions
VF	Max Instantaneous Forward Voltage				1.2				v	IF(AV)= 3.0A
	Max DC Reverse Current at Rated	ront at Pated 5.0							TA=25 ℃	
IR	DC Blocking Voltage	250							μΑ	TA=125 ℃
c	Typical Junction Capacitance	60						pF	At 1MHz, reversed voltage of 4V	
Rθ-JA					47					
R0-JL	Typical Thermal Resistance	13						°C/w	Note 2	

Note:

1. Single phase, half wave, 60Hz, resistive or inductive load. Derate current by 20% for capacitive load

2. Thermal Resistance from junction to ambient and from junction to lead mounted on PCB with 0.3" x 0.3" (8.0mm x 8.0mm) copper pad areas.



S3A ~ S3M

Typical Characteristics Curves

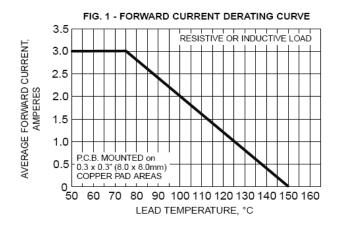
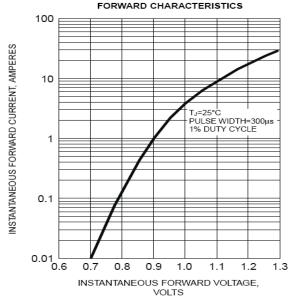


FIG. 3 - TYPICAL INSTANTANEOUS



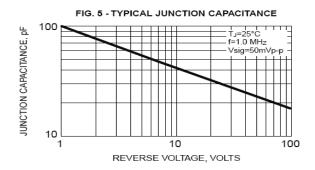
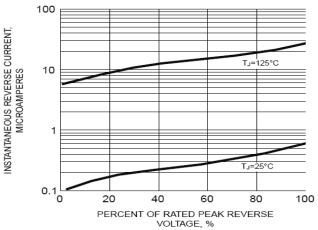
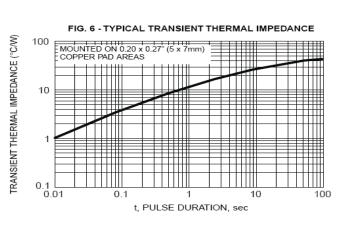


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT 200 Ti =75°C 8.3ms SINGLE HALF SINE-WAVE PEAK FORWARD SURGE CURRENT, AMPERES (JEDEC Method) 11 100 10 10 100 1 NUMBER OF CYCLES AT 60 Hz

FIG. 4 - TYPICAL REVERSE CHARACTERISTICS





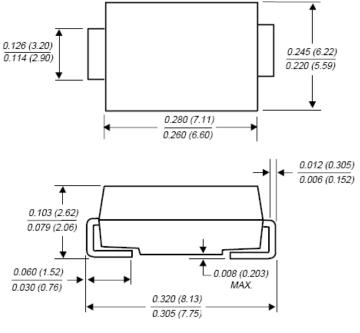
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MEI SEMI Surface Mount Glass Passivated Rectifier

S3A ~ S3M

Dimensions in inch (mm)



DO-214AB(SMC)

Contact us:

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