

Surface Mount Fast Switching Rectifier

Features

- Low profile surface mounted package
- Fast recovery time for high efficiency
- Glass passivated junction
- Plastic package has underwriters laboratory flammability classification 94 V-O
- High temperature soldering: 250 °C / 10 seconds at terminals
- RoHS compliant



SMA

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

Symbol	Description	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	Unit	Conditions
VRRM	Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
VRMS	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
VDC	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
lav	Maximum Average Forward Rectified Current				1.0				Α	TA=50°C
IFSM	Peak Forward Surge Current				30				А	8.3ms single half sine- wave superimposed on rated load (JEDEC method)

Note: Single phase half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%



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

Symbol	Description	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	Unit	Conditions
VF	Maximum Instantaneous Forward Voltage	1.3							V	lF at 1.0 A
1_	Maximum DC Reverse Current at Rated DC Blocking Voltage	5							μΑ	TA = 25 °C
İR		100								TA = 125 °C
t rr	Typical Reverse Recovery Time	150 250 500							nS	$I_F = 0.5A, I_R = 1.0A,$ $I_{rr} = 0.25A$
Сı	Typical Junction Capacitance	10 7						pf	Measured at 1.0 MHZ and Applied Vr = 4.0 volts.	
Re-JL	Maximum Thermal 32								° C/W	Mounted on 0.2" x 0.2"
Rθ-JA	Resistance 105								C/VV	(5mmx5mm) copper pad area
ТЈ,Тѕтс	Operating Junction and Storage Temperature Range	-55 to 150							° C	

Note: Single phase half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Typical Characteristics Curves

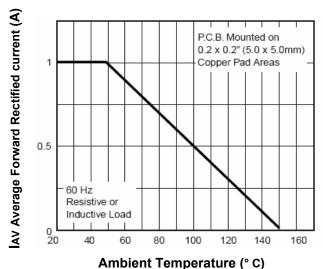


Fig.1- Forward Current Derating Curve

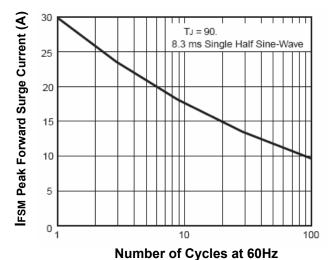


Fig.2- Max. Non-Repetitive Forward Surge Current



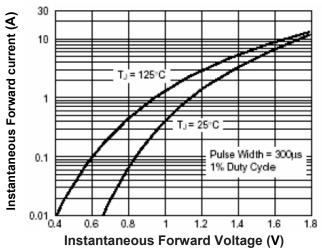
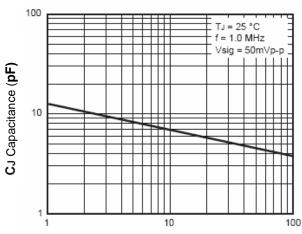


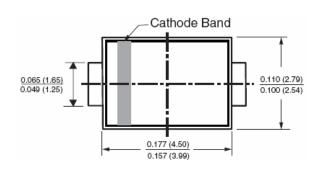
Fig.3- Typical Instantaneous Forward Characteristics

Fig.4- Typical Reverse Characteristics

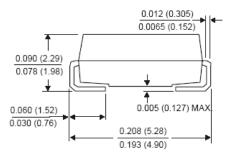


Reverse Voltage (V) Fig.5- Junction Capacitance

Dimensions in inch (mm)



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