



SURFACE MOUNT FAST RECOVERY RECTIFIER RS1A ~ RS1M

Surface Mount Fast Recovery Rectifier

Features

- Plastic package has UL flammability classification 94V-0
- Glass passivated chip junction
- Built in strain relief
- Fast switching speed for high efficiency
- High temperature soldering guaranteed:
260°C/10 seconds, 0.375" (9.5mm) lead length
- RoHS and REACH Compliance



DO-214AC (SMA)

Mechanical Data

Case:	JEDEC DO-214AC transfer molded plastic
Polarity:	Color band denots cathode end
Terminals:	Solder plated, solderable per MIL-STD-750 method 2026
Weight:	0.002 ounce, 0.064 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

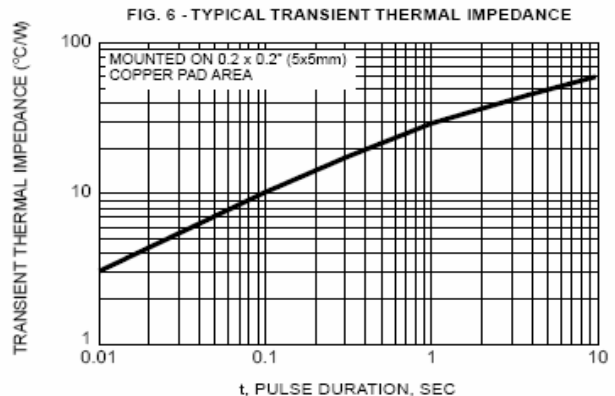
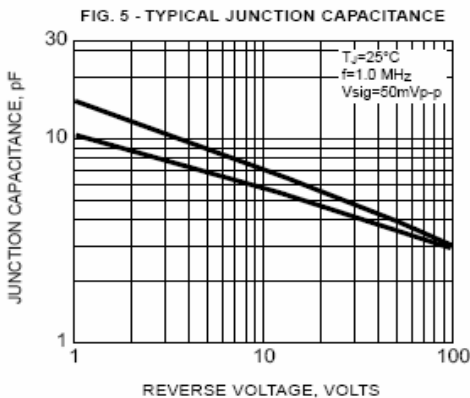
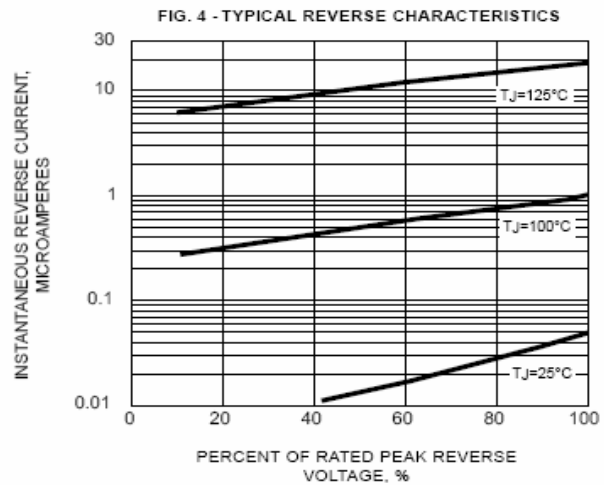
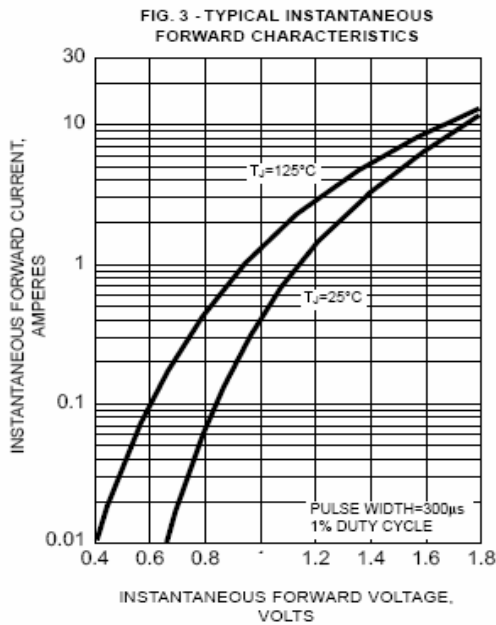
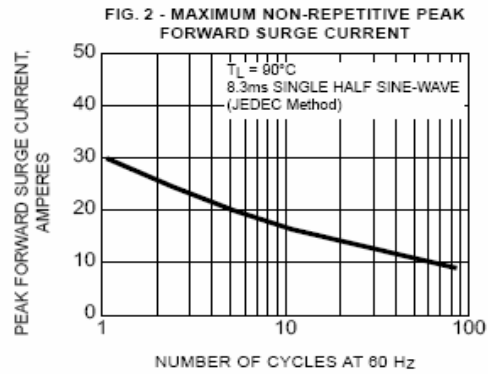
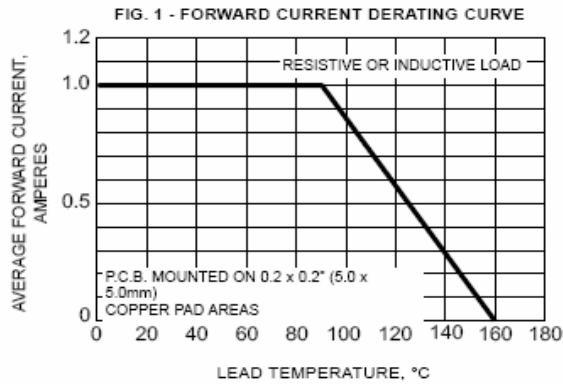
Symbol	Description	RS1A	RS1B	RS1D	RS1G	RS1H	RS1K	RS1M	Unit	Conditions
VRRM	Max Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
VRMS	Max RMS Voltage	35	70	140	280	420	560	700	V	
VDC	Max DC Blocking Voltage	50	100	200	400	600	800	1000	V	
I(AV)	Max Average Forward Rectified Current	1.0							A	TL=100°C
IFSM	Peak Forward Surge Current	30							A	JEDEC method
TJ,TSTG	Operating and Storage Temperature Range	-55 to +150, -55 to +150							°C	
Rθ-JA	Typical Thermal Resistance	105							°C/W	Note 2
Rθ-JL		32								

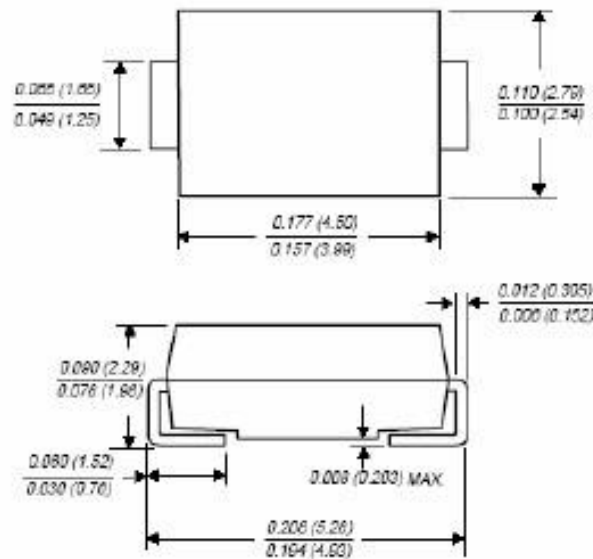
Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	Unit	Conditions
VF	Max Instantaneous Forward Voltage	1.3							V	1.0A
IR	Max DC Reverse Current at Rated DC Blocking Voltage	5.0							μA	TA=25°C
		50							mA	TA=125°C
TRR	Maximum reverse recovery time	150	250			500		nS	Note 1	
CJ	Typical Junction Capacitance	10				7			pF	Measured at 1.0MHz / 4.0V

Note:

1. Reverse recovery test conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$
2. Thermal resistance from junction to ambient and from junction to lead mounted on PCB with 0.2" x 0.2" (5.0mm x 5.0mm) copper pad areas.

RS1A ~ RS1M
RATINGS AND CHARACTERISTIC CURVES RS1A THRU RS1M


Dimensions in inches (mm)*Dimensions in inches and (millimeters)***DO-214AC (SMA)****Contact us:****US HEADQUARTERS****MEI SEMI INC.****2902** Corvin Drive, Santa Clara, CA95051, USA

Tel: 1-408-733-0808 Fax: 1-408-733-2828