



SURFACE MOUNT FAST RECOVERY RECTIFIER RS1A-H ~ RS1M-H

Surface Mount Fast Recovery Rectifier

Features

- Low Leakage current
- Ideal for surface mounted applications
- Open Junction chip
- High temperature soldering guaranteed 265°C /5 seconds
260°C/ 10 seconds
- RoHS and REACH compliance



RoHS
COMPLIANT

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:	0.078 gram

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

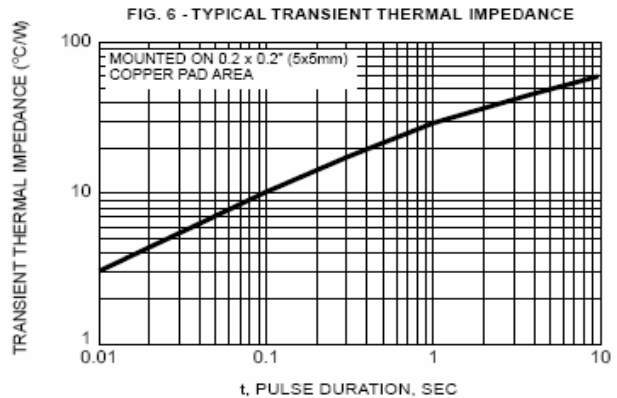
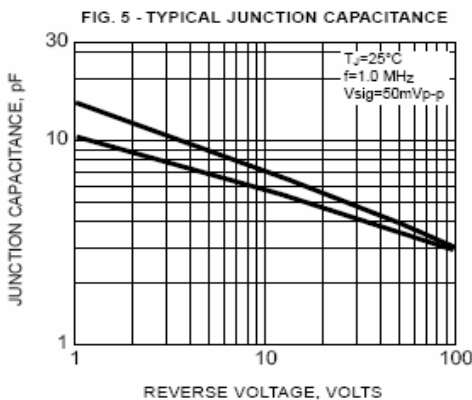
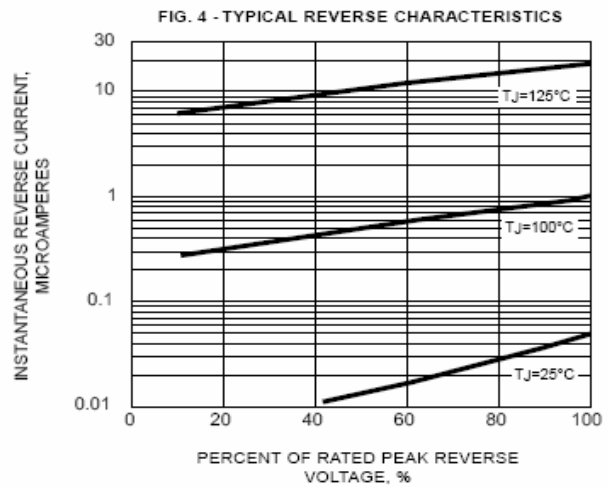
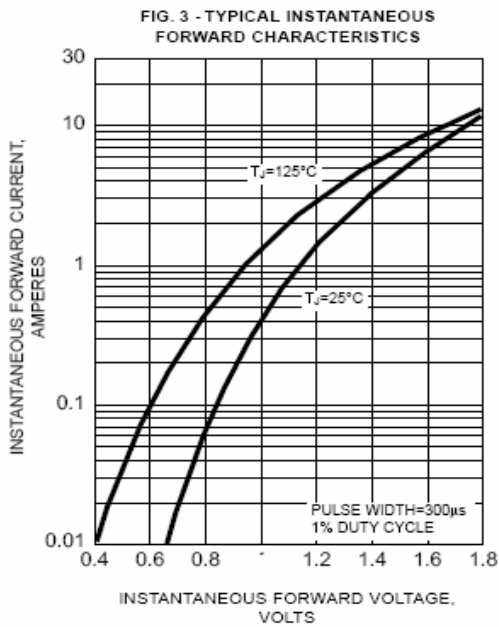
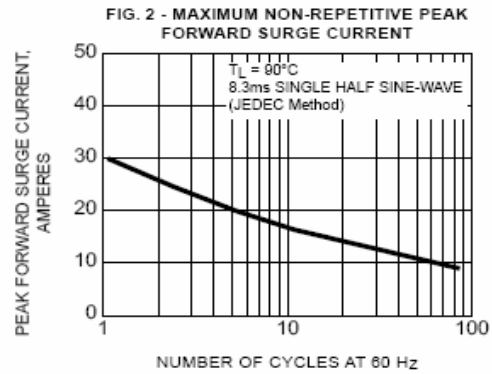
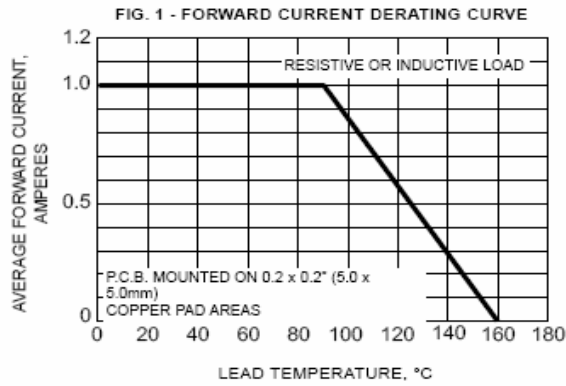
Symbol	Description	RS1A-H	RS1B-H	RS1D-H	RS1G-H	RS1J-H	RS1K-H	RS1M-H	Unit	Conditions
VRRM	Max Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
VRMS	Max RMS Voltage	35	70	140	280	420	560	700	V	
VDC	Max DC Blocking Voltage	50	100	200	400	600	800	1000	V	
I(AV)	Max Average Forward Rectified Current	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								

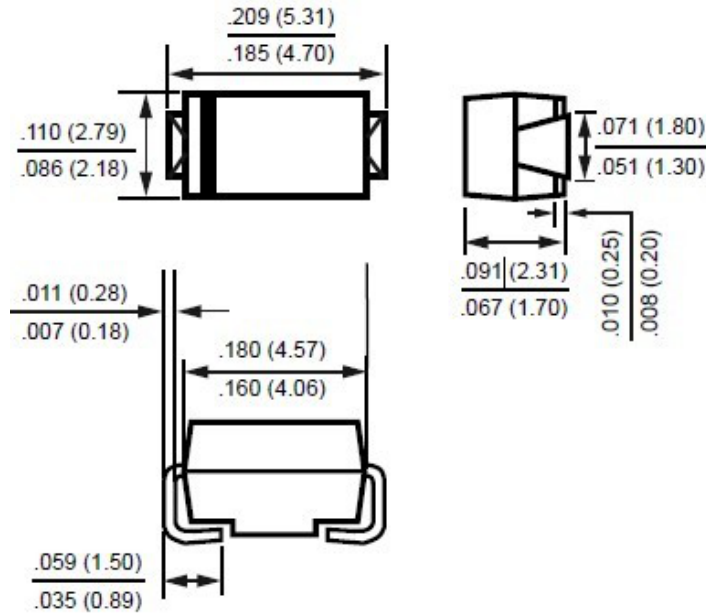
Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	RS1A-H	RS1B-H	RS1D-H	RS1G-H	RS1J-H	RS1K-H	RS1M-H	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
		1000								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-H ~ RS1M-H
RATINGS AND CHARACTERISTIC CURVES RS1A-H THRU RS1M-H


RS1A-H ~ RS1M-H
Dimensions in inches (mm)

SMA-H
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