

## **RS1A thru RS1M**

# SURFACE MOUNT FAST RECOVERY RECTIFIERS

REVERSE VOLTAGE - **50** to **1000** Volts FORWARD CURRENT - **1.0** Ampere

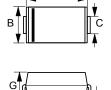
#### **FEATURES**

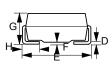
- Fast switching for high efficiency
- For surface mounted applications
- · Glass passivated chip
- Low reverse leakage current
- Low forward voltage drop
- · High current capability

#### **MECHANICAL DATA**

- Case : Molded plastic
- Case Material: Molding compound, UL Flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".
- Polarity: Indicated by cathode bandWeight: 0.002 ounces, 0.064 grams

#### SMA





SMA								
DIM.	MIN.	MAX.						
Α	4.06	4.57						
В	2.29	2.92						
С	1.27	1.63						
D	0.15	0.31						
E	4.83	5.59						
F	0.05	0.20						
G	2.01	2.40						
Н	0.76	1.52						
All Dimensions in millimeter								

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TL =90℃	I(AV)	1.0							Α
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	Iғsм	30						А	
Maximum forward Voltage at 1.0A DC	VF	1.3						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ =25°C	lr	5.0 200							uA
Maximum Reverse Recovery Time (Note 1)	Trr		1	50		250	50	00	ns
Typical Junction Capacitance (Note 2)	Cı	15						pF	
Typical Thermal Resistance (Note 3)	Rejl	30					°C/W		
Operating Temperature Range	TJ	-55 to +150					°C		
Storage Temperature Range	Тѕтс	-55 to +150					°C		

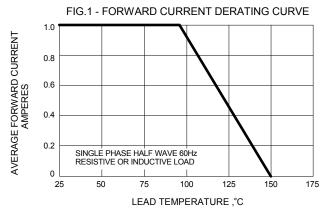
NOTES: 1.Reverse Recovery Test Conditions:IF=0.5A,IR=1.0A,IRR=0.25A.

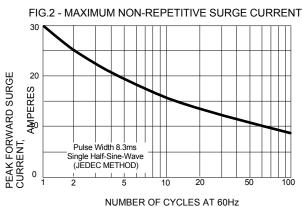
2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

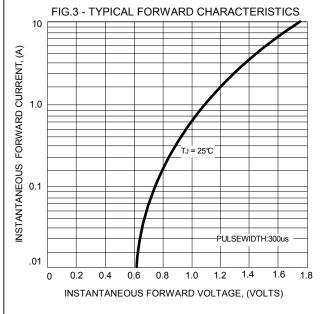
3. Thermal Resistance Junction to Lead.

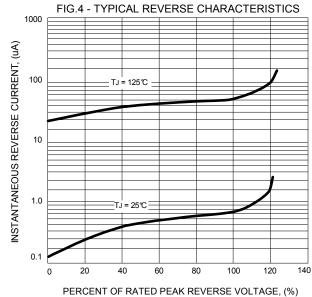
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