

RS1A thru RS1M

SURFACE MOUNT FAST RECOVERY RECTIFIERS

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

FEATURES

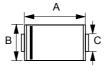
- Fast switching for high efficiency
- For surface mounted applications
- Glass passivated chip
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0

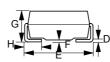
MECHANICAL DATA

• Case : Molded plastic

• Polarity : Indicated by cathode band • Weight: 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					
Е	4.83	5.59					
F	0.05	0.20					
G	2.01	2.62					
Н	0.76	1.52					
All Dimensions in millimeter							

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

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°C	I(AV)	1.0							А
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	IFSМ				30				А
Maximum forward Voltage at 1.0A DC	VF	1.3							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ =125°C	lR	5.0 200						uA	
Maximum Reverse Recovery Time (Note 1)	TRR	150 250 500				00	ns		
Typical Junction Capacitance (Note 2)	C1	15						pF	
Typical Thermal Resistance (Note 3)	Rejl	30					°C/W		
Operating Temperature Range	TJ	-55 to +150						°C	
Storage Temperature Range	Tstg	-55 to +150						°C	

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

3. Thermal Resistance Junction to Lead.

Http://www.gmsemi.com

