



SURFACE MOUNT FAST RECOVERY GLASS PASSIVATED RECTIFIERS

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

FEATURES

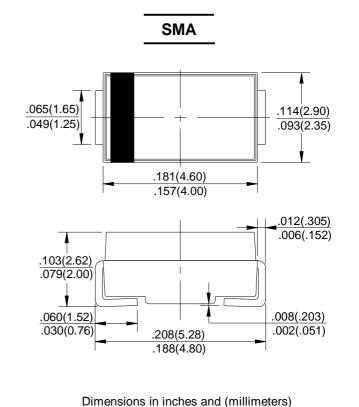
- Fast switching for high efficiency
- Low cost
- Diffused junction
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

MECHANICAL DATA

●Case: Molded Plastic

Polarity: Indicated by cathode bandWeight: 0.002 ounces,0.053 grams

Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

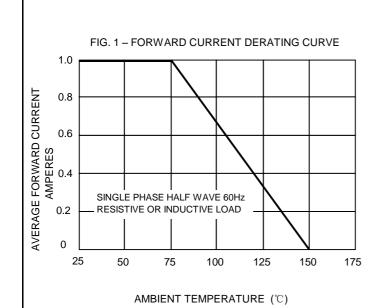
CHARACTERISTICS	SYMBOL	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Ta=75 ℃	l(AV)	1.0						Α	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	30						А	
Peak Forward Voltage at 1.0A DC	VF	1.3					V		
Maximum DC Reverse Current @TJ=25℃ at Rated DC Blocking Voltage @TJ=100℃	lR	5.0 100							μΑ
Maximum Reverse Recovery Time (Note 1)	Trr	150			250	500		nS	
Typical Junction Capacitance (Note2)	CJ	25			15		pF		
Typical Thermal Resistance (Note3)	Reja	25						°C/W	
Operating Temperature Range	TJ	-55 to +150						$^{\circ}$	
Storage Temperature Range	Tstg	-55 to +150						$^{\circ}$	

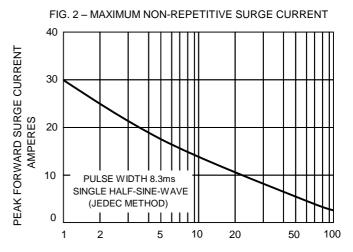
NOTES: 1.Measured with IF=0.5A,IR=1A,IRR=0.25A

- 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC
- 3. Thermal resistance junction to ambient.

REV. 1, 30-Dec-2011









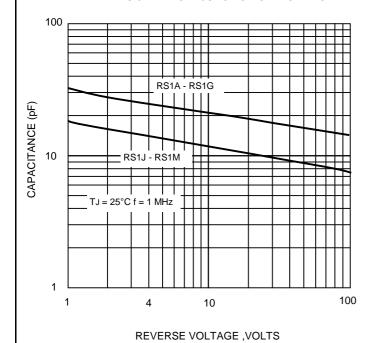
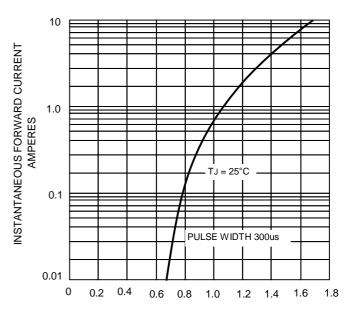


FIG.4-TYPICAL FORWARD CHARACTERISTICS

NUMBER OF CYCLES AT 60Hz



INSTANTANEOUS FORWARD VOLTAGE, VOLTS