



SURFACE MOUNT GLASS HIGH EFFICIENCY RECTIFIERS

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

FEATURES

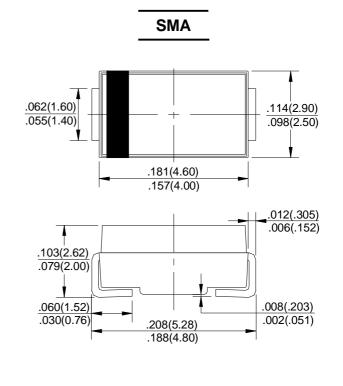
- Low cost
- Diffused junction
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

MECHANICAL DATA

●Case: Molded Plastic

Polarity: Indicated by cathode bandWeight: 0.002 ounces,0.064 grams

Mounting position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

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

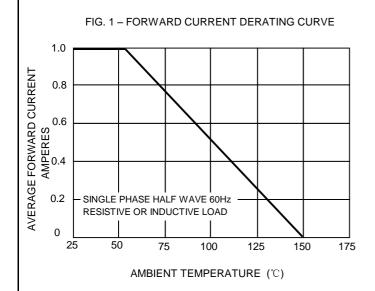
For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	HS1A	HS1B	HS1D	HS1G	HS1J	HS1K	HS1M	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	580	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Ta=55 °C	I(AV)	1.0							А
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	lfsm	30							А
Peak Forward Voltage at 1.0A DC(Note1)	VF	1.0 1.3				1.7			V
Maximum DC Reverse Current @TJ=25℃ at Rated DC Blocking Voltage @TJ=100℃	lr	5.0 100							uA
Maximum Reverse Recovery Time(Note 1)	Trr	50 75						nS	
Tyical Junction Capacitance (Note2)	Cı	20					10		pF
Tyical Thermal Resistance (Note3)	RөJA	25						°C/W	
Operating Temperature Range	TJ	-50 to +150							℃
Storage Temperature Range	Тѕтс	-50 to +150							$^{\circ}$ C
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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 of ambient.





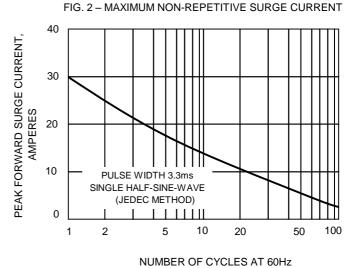
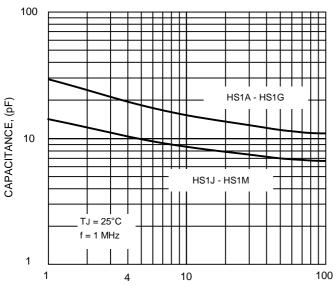


FIG.3 – TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE, VOLTS

