## SS1A THRU SS1M

# SINTERED GLASS JUNCTION SURFACE MOUNTED RECTIFIER

VOLTAGE: 50 TO 1000V CURRENT: 1.0A



#### **FEATURE**

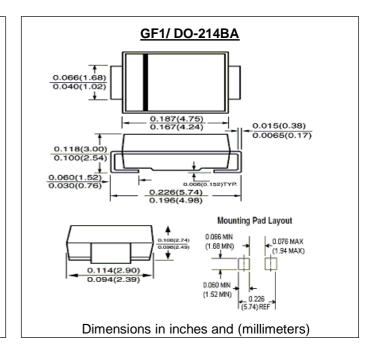
For surface mounted application
High temperature metallurgic ally bonded
Sintered glass junction
Capability of meeting environmental standard of
MIL-S-19500
High temperature soldering guaranteed
450°C/10sec/at terminal / complete device
Submersible temperature of 265°C for 10sec

## **MECHANICAL DATA**

Terminal: Plated Terminal, solderable per MIL-STD 202, method 208C

Case: Molded with UL-94 class V-0 recognized

Flame Retardant Epoxy over Glass Polarity: color band denotes cathode end



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

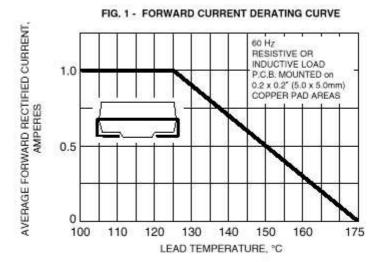
(single—phase, half —wave, 60HZ, resistive or inductive load rating at 25℃, unless otherwise stated, for capacitive load, derate current by 20%)

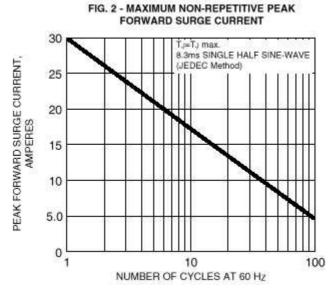
	SYMBOL	SS 1A	SS 1B	SS 1D	SS 1G	SS 1J	SS 1K	SS 1M	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	If(av)	1.0							Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	30.0							А
Maximum Forward Voltage at rated Forward current Ta =25°C	Vf	1.1 1.2						.2	V
Maximum full load reverse current full cycle average at 75°C ambient	Ir(av)	30.0							μА
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	lr	5.0 50.0							μ <b>Α</b> μ <b>Α</b>
Typical Junction Capacitance (Note 1)	Cj	15.0							pF
Typical Thermal Resistance (Note 2)	R(ja)	80.0							°C/W
Operating and Storage Temperature Range	Tst, Tj	-65 to +175							$^{\circ}$

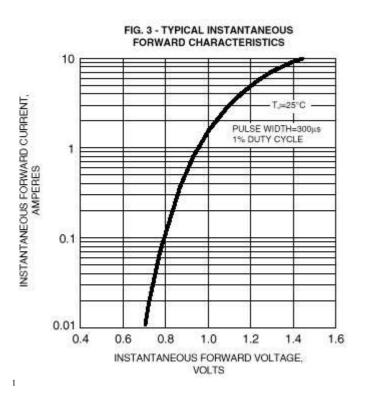
#### Note:

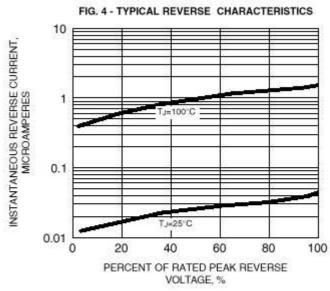
Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
Thermal Resistance from Junction to Ambient 6.0mm<sup>2</sup> copper pad to each terminal

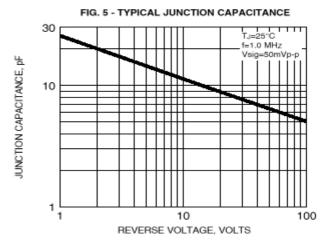
Rev.A4 www.gulfsemi.com

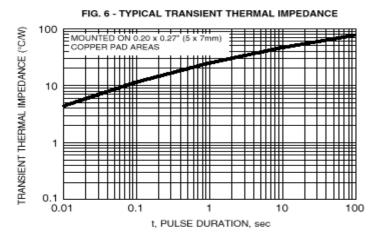












<sup>1</sup> Rev.A4 www.gulfsemi.com