

SS1A THRU SS1M

SINTERED GLASS JUNCTION SURFACE MOUNTED RECTIFIER

VOLTAGE : 50 TO 1000V

CURRENT : 1.0A



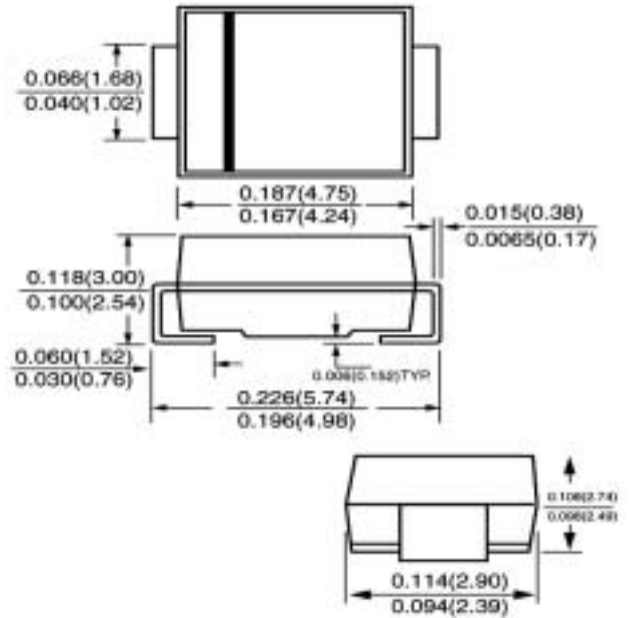
FEATURE

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 /10sec/at terminal / complete device
Submersible temperature of 265 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

GF1/ DO-214BA



Dimensions in inches and (millimeters)

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	V _{rrm}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{rms}	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V _{dc}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I _{f(av)}	1.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	30.0							A
Maximum Forward Voltage at rated Forward current Ta =25	V _f	1.1					1.2		V
Maximum full load reverse current full cycle average at 75 ambient	I _{r(av)}	30.0							μ A
Maximum DC Reverse Current Ta =25 at rated DC blocking voltage Ta =125	I _r	5.0 50.0							μ A μ A
Typical Junction Capacitance (Note 1)	C _j	15.0							pF
Typical Thermal Resistance (Note 2)	R(ja)	80.0							/W
Operating and Storage Temperature Range	T _{st} , T _j	-65 to +175							

Note :

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to Ambient 6.0mm² copper pad to each terminal

RATINGS AND CHARACTERISTIC CURVES SS1A THRU SS1M

FIG. 1 - FORWARD CURRENT DERATING CURVE

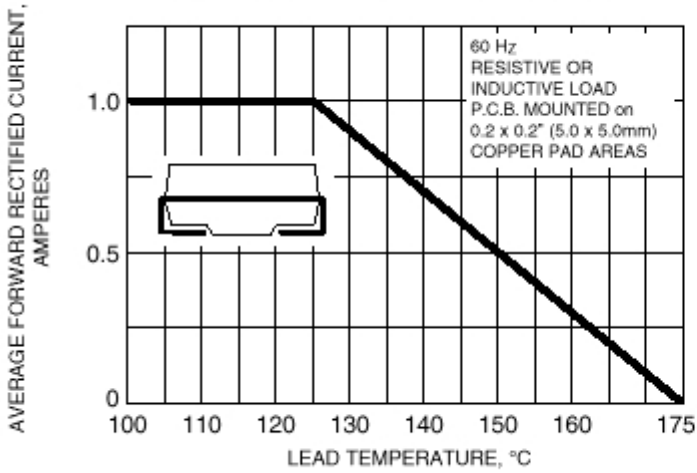


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

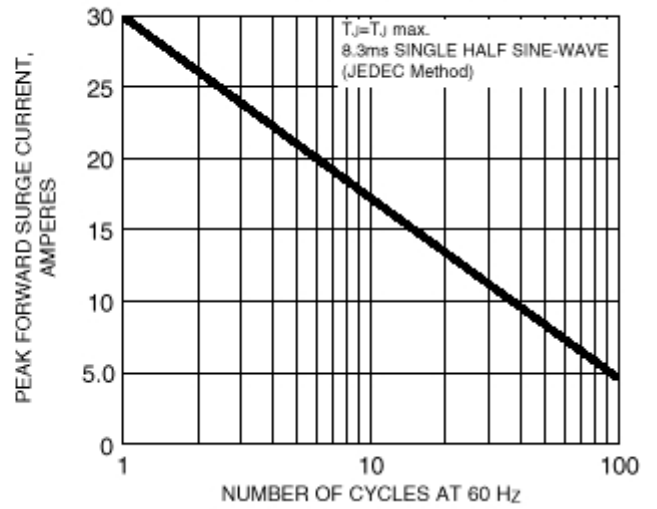


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

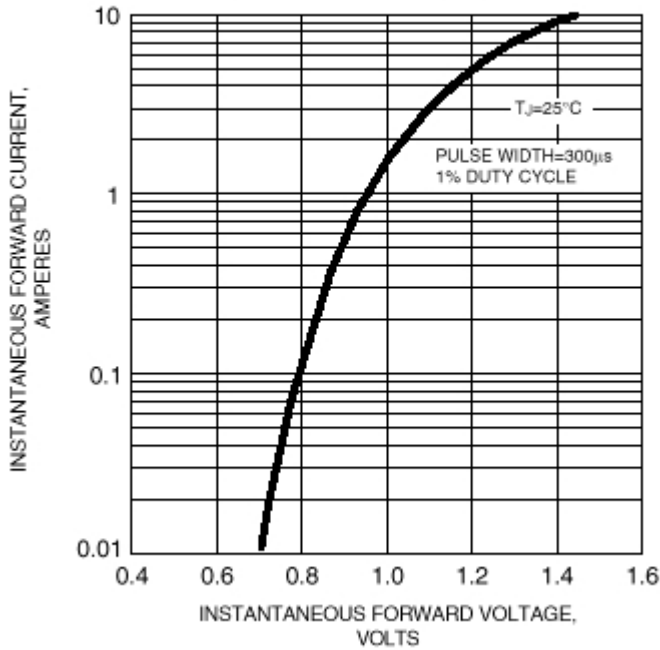


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

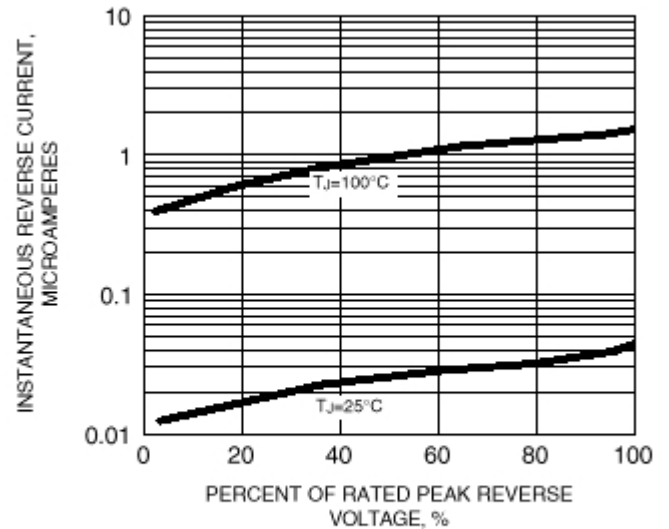


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

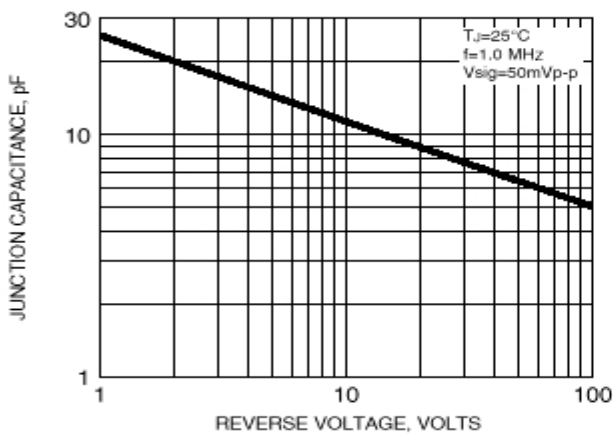


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

