SSF1AG THRU SSF1GG

ULTRAFAST EFFICIENT GLASS PASSIVATED RECTIFIER

VOLTAGE:50 TO 400V CURRENT: 1.0A

GULF SEMI

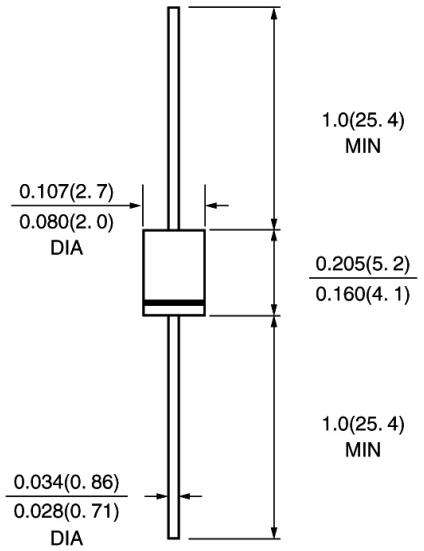
FEATURE

Low power loss
High surge capability
Ultra-fast recovery time for high efficiency
Glass passivated chip junction
High temperature soldering guaranteed
250°C/10sec/0.375"lead length at 5 lbs tension

MECHANICAL DATA

Terminal:Plated axial leads solderable per MIL-STD 202E, method 208C
Case:Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity:color band denotes cathode
Mounting position:any

DO –41\DO–204AL



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	SSF 1AG	SSF 1BG	SSF 1CG	SSF 1DG	SSF 1FG	SSF 1GG	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	150	200	300	400	V
Maximum RMS Voltage	Vrms	35	70	105	140	210	280	V
Maximum DC blocking Voltage	Vdc	50	100	150	200	300	400	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	If(av)	1.0						A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	30.0						A
Maximum Forward Voltage at Forward current 1A Peak	Vf	0.95				1.25		V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	Ir	10.0 100.0						µA µA
Maximum Reverse Recovery Time (Note 1)	Trr	35						nS
Typical Junction Capacitance (Note 2)	Cj	15				10		pF
Storage and Operating Junction Temperature	Tstg,Tj	-55 to +150						°C

Note:

1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
   Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

FIG.1- MAXIMUM AVERAGE FORWARD CURRENT DERATING

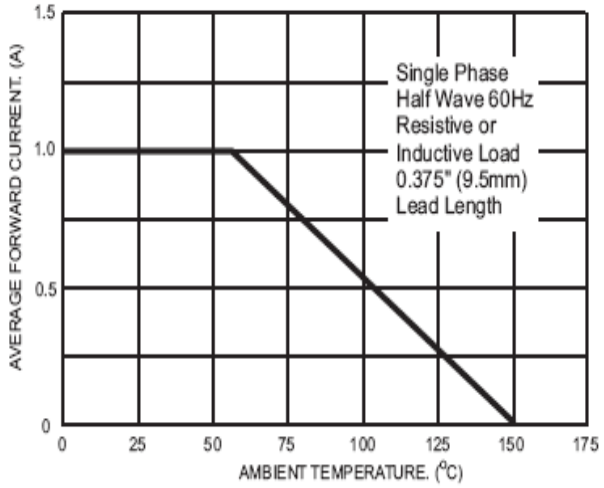


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

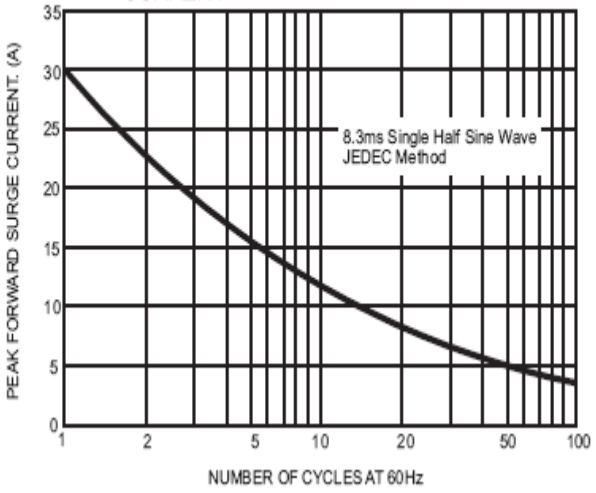


FIG.3- TYPICAL FORWARD CHARACTERISTICS

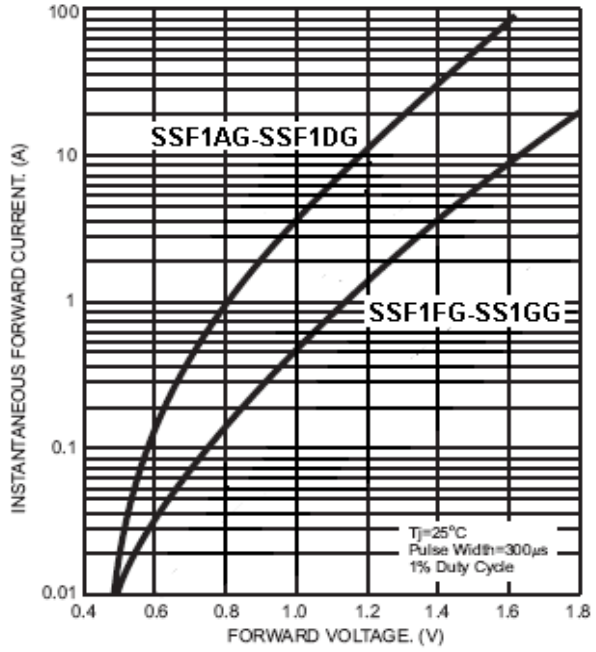


FIG.4- TYPICAL REVERSE CHARACTERISTICS

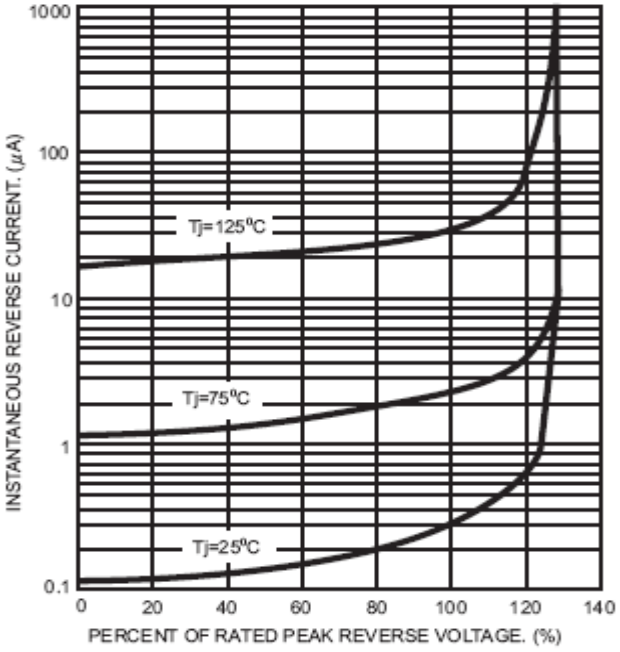


FIG.5- TYPICAL JUNCTION CAPACITANCE

