SSF3AG THRU SSF3GG

ULTRAFAST EFFICIENT GLASS PASSIVATED RECTIFIER

VOLTAGE:50 TO 400V CURRENT: 3.0A

GULF SEMI

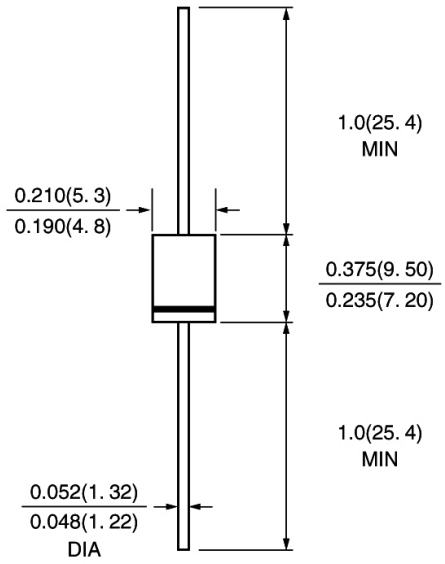
FEATURE

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-201AD



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 3AG	SSF 3BG	SSF 3CG	SSF 3DG	SSF 3FG	SSF 3GG	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)	3.0						A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	125.0						A
Maximum Forward Voltage at Forward current 3A 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	50				30		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
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

RATINGS AND CHARACTERISTIC CURVES SSF3AG THRU SSF3GG

FIG.1 - FORWARD CURRENT DERATING CURVE

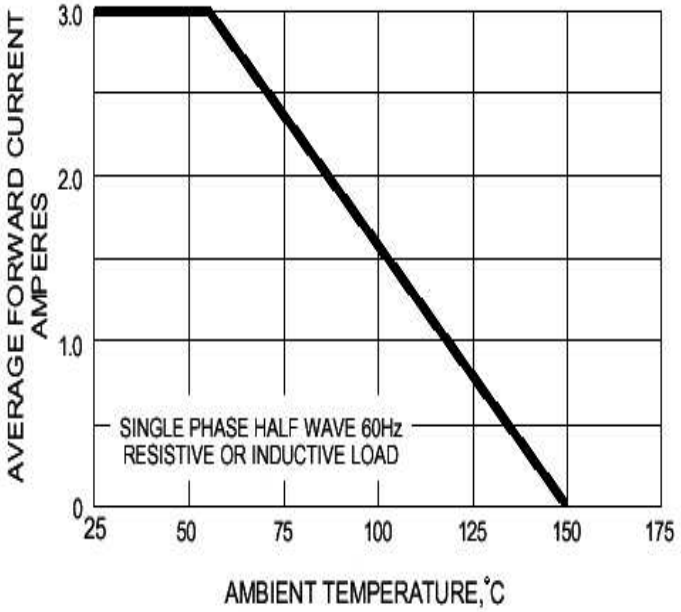


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

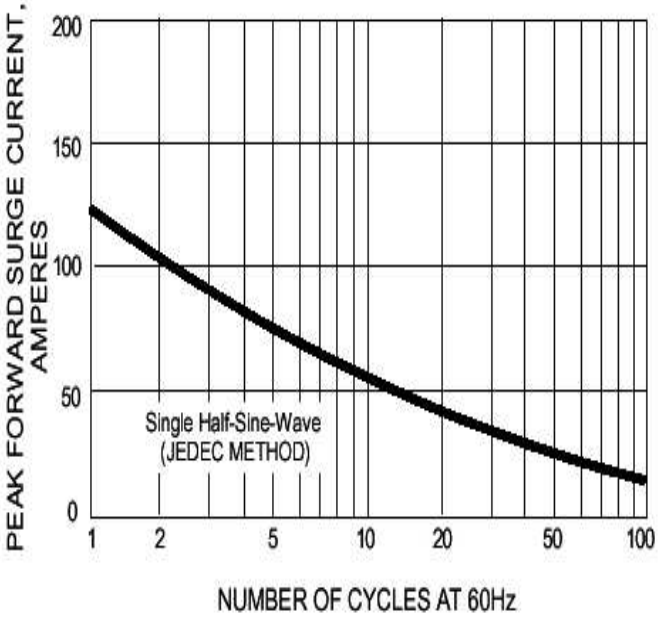


FIG.3 - TYPICAL JUNCTION CAPACITANCE

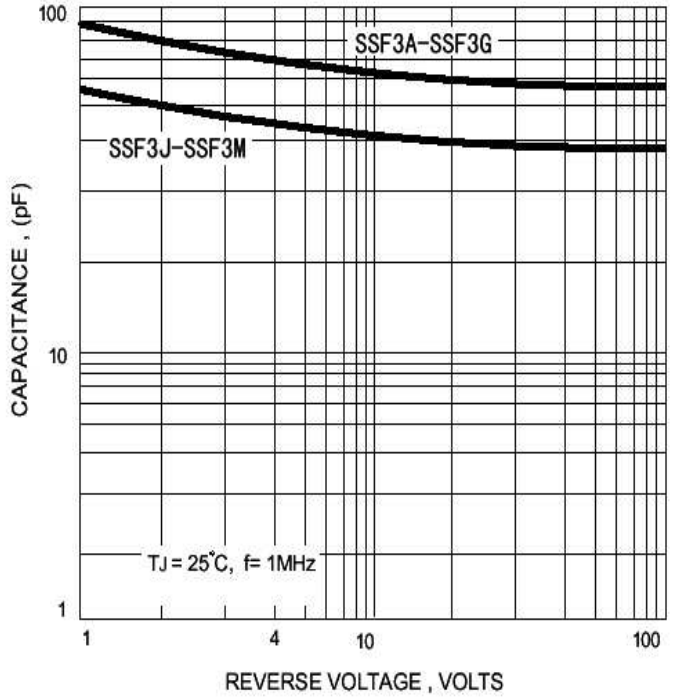


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

