

SSF3AG THRU SSF3GG

**ULTRAFAST EFFICIENT
GLASS PASSIVATED RECTIFIER**
VOLTAGE:50 TO 400V CURRENT: 3.0A

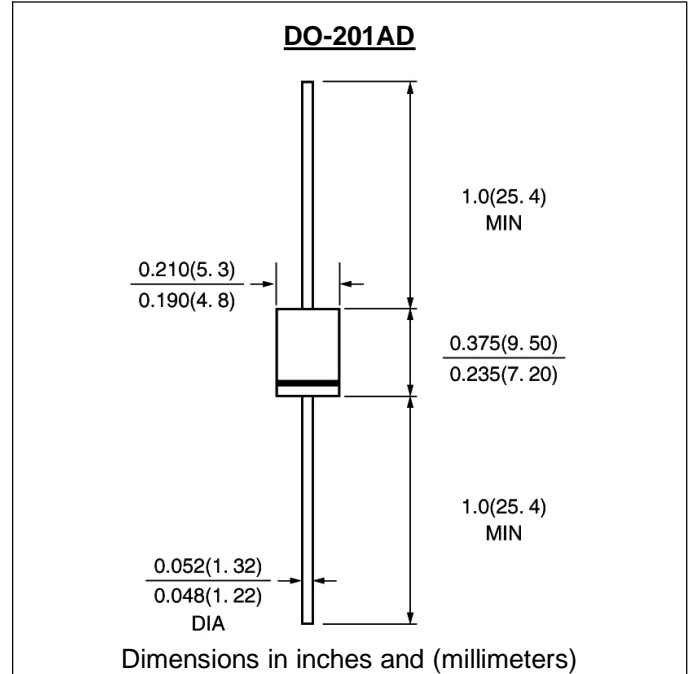


FEATURE

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



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	V _{rrm}	50	100	150	200	300	400	V
Maximum RMS Voltage	V _{rms}	35	70	105	140	210	280	V
Maximum DC blocking Voltage	V _{dc}	50	100	150	200	300	400	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	I _{f(av)}	3.0						A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	125.0						A
Maximum Forward Voltage at Forward current 3A Peak	V _f	0.95				1.25		V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I _r	10.0 100.0						μA μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	35						nS
Typical Junction Capacitance (Note 2)	C _j	50				30		pF
Storage and Operating Junction Temperature	T _{stg} ,T _j	-55 to +150						°C

Note:

1. Reverse Recovery Condition I_f =0.5A, I_r =1.0A, I_{rr} =0.25A
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V_{dc}

FIG.1 - FORWARD CURRENT DERATING CURVE

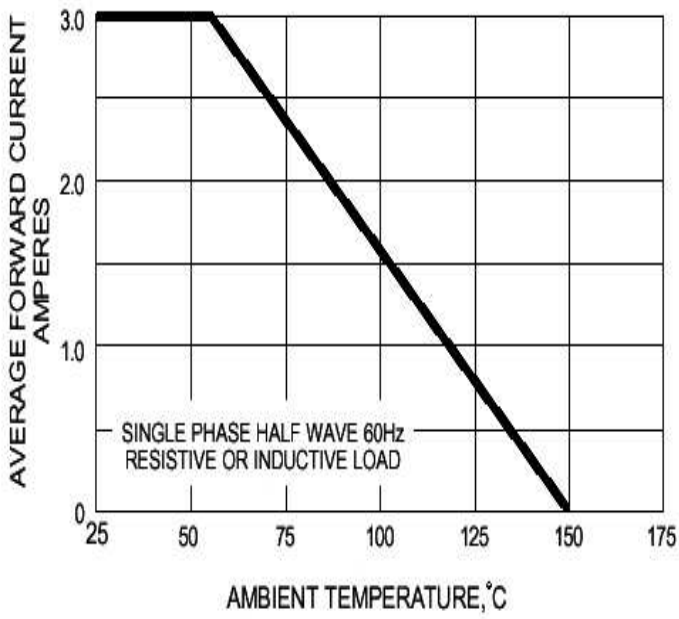


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

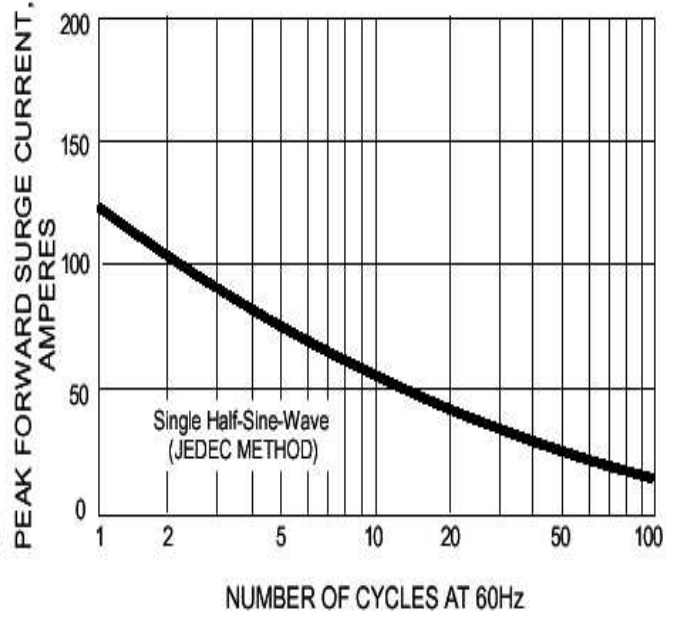


FIG.3 - TYPICAL JUNCTION CAPACITANCE

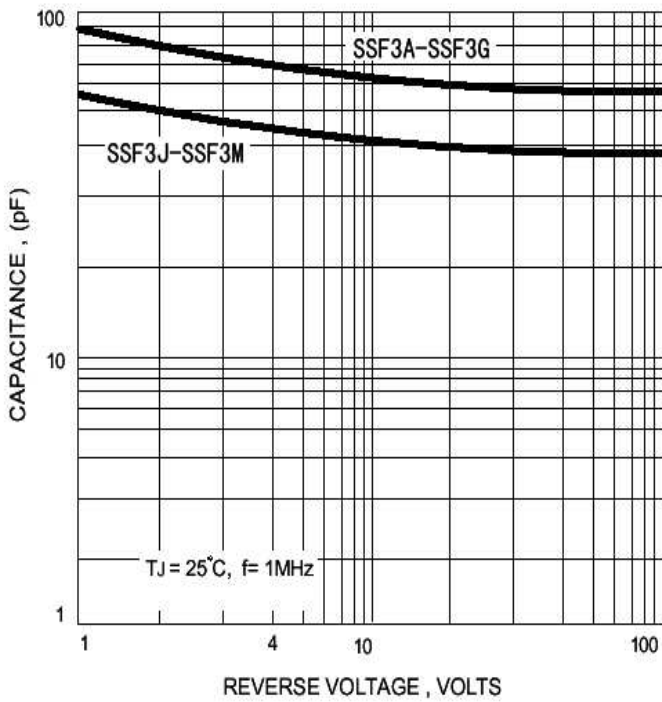


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

