

# SSF6AG THRU SSF6JG

**ULTRAFAST EFFICIENT  
GLASS PASSIVATED RECTIFIER**  
VOLTAGE: 50 TO 600V                      CURRENT: 6.0A

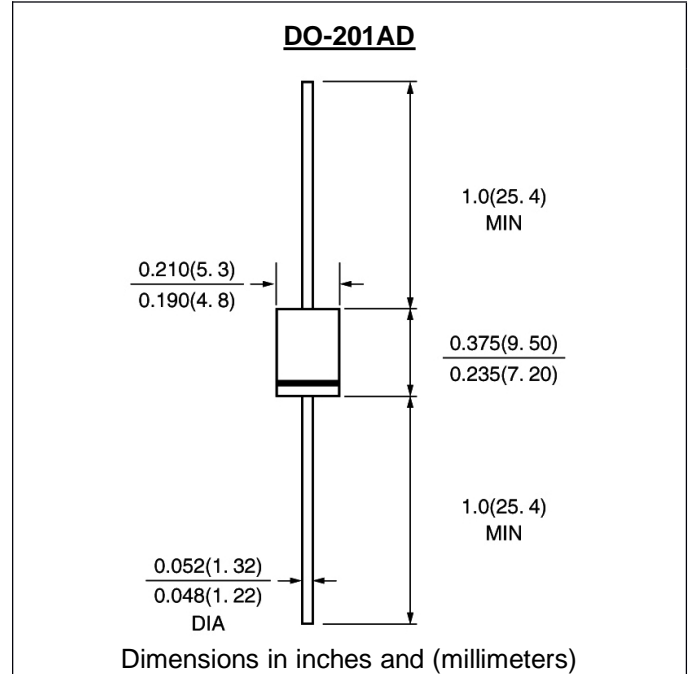


## FEATURE

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	SSF6AG	SSF6BG	SSF6DG	SSF6GG	SSF6JG	units
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	50	100	200	400	600	V
Maximum RMS Voltage	V <sub>rms</sub>	35	70	140	280	420	V
Maximum DC blocking Voltage	V <sub>dc</sub>	50	100	200	400	600	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	I <sub>f(av)</sub>	6.0					A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	150					A
Maximum Forward Voltage at Forward current 6A Peak	V <sub>f</sub>	0.975			1.30	1.70	V
Maximum DC Reverse Current                      Ta =25°C at rated DC blocking voltage                      Ta =125°C	I <sub>r</sub>	5.0 100.0					μA
Maximum Reverse Recovery Time                      (Note 1)	T <sub>rr</sub>	35					nS
Typical Thermal Resistance	R <sub>th(ja)</sub> R <sub>th(jl)</sub>	40 5.0					°C/W
Typical Junction Capacitance                      (Note 2)	C <sub>j</sub>	100			50		pF
Storage and Operating Junction Temperature	T <sub>stg</sub> , T <sub>j</sub>	-55 to +150					°C

Note:

- Reverse Recovery Condition I<sub>f</sub> =0.5A, I<sub>r</sub> =1.0A, I<sub>rr</sub> =0.25A
- Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

RATINGS AND CHARACTERISTIC CURVES SSF6AG THRU SSF6JG

FIG.1 FORWARD CURRENT DERATING CURVE

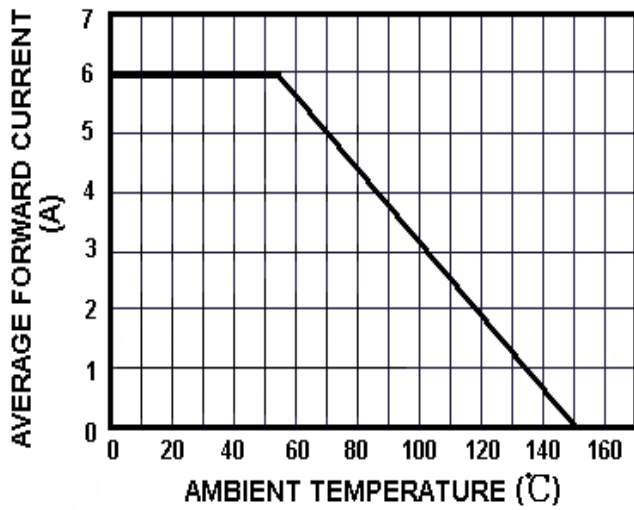


FIG.2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

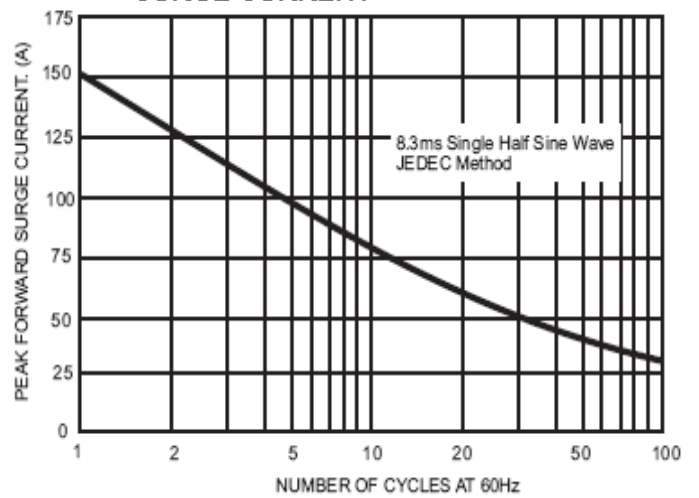


FIG.3 TYPICAL FORWARD CHARACTERISTICS

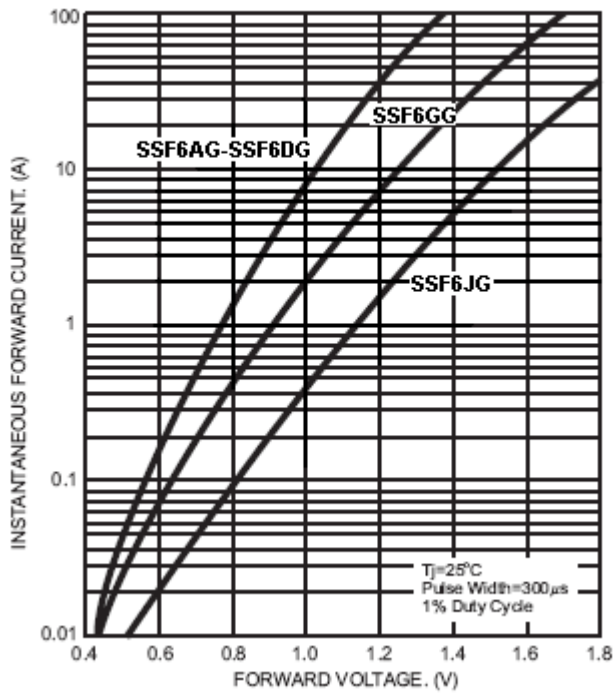


FIG.4 TYPICAL REVERSE CHARACTERISTICS

