SSF6AG THRU SSF6JG

ULTRAFAST EFFICIENT GLASS PASSIVATED RECTIFIER

VOLTAGE: 50 TO 600V **CURRENT: 6.0A**

VOLTARISTECH INC.
POWER • PRECISION • INNOVATION

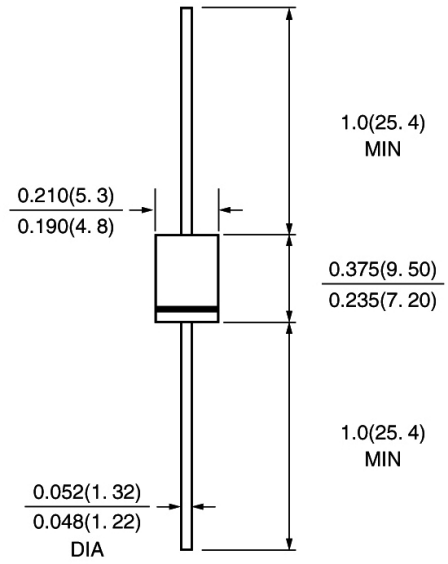
FEATURE

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

MECHANICAL DATA

Terminal: Plated axial leads solderable per J-STD-002
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	SSF6AG	SSF6BG	SSF6DG	SSF6FG	SSF6GG	SSF6JG	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	300	400	600	V
Maximum RMS Voltage	Vrms	35	70	140	210	280	420	V
Maximum DC blocking Voltage	Vdc	50	100	200	300	400	600	V
Maximum Average Forward Rectified Current 3/8”lead length at Ta =25➡C	If(av)	6.0						A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	150						A
Maximum Forward Voltage at Forward current 6A Peak	Vf	0.975			1.30		1.70	V
Maximum DC Reverse Current Ta =25➡C at rated DC blocking voltage Ta =125➡C	Ir	5.0 100.0						↘A
Maximum Reverse Recovery Time (Note 1)	Trr	35						nS
Typical Thermal Resistance	Rth(ja) Rth(jl)	40 5.0						➡C/W
Typical Junction Capacitance (Note 2)	Cj	100			50			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 SSF6AG THRU SSF6JG

FIG.1 FORWARD CURRENT DERATING CURVE

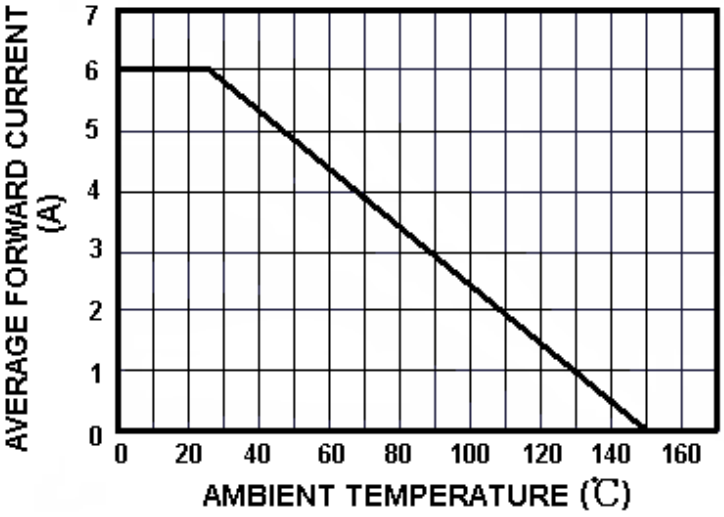


FIG.2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

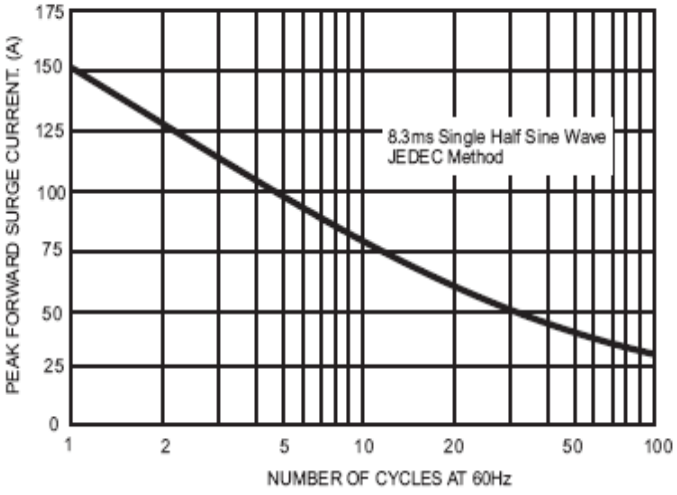


FIG.3 TYPICAL FORWARD CHARACTERISTICS

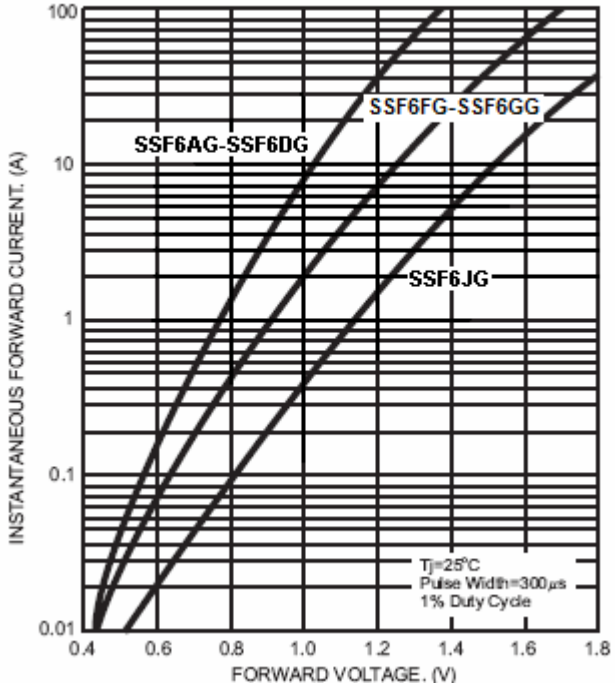


FIG.4 TYPICAL REVERSE CHARACTERISTICS