UG5F

SUPERFAST EFFICIENT GLASS PASSIVATED RECTIFIER

VOLTAGE：300V **CURRENT：5.0A**

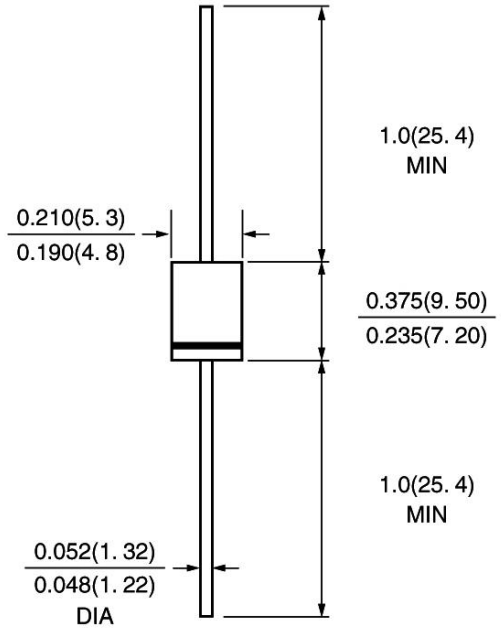
FEATURE

Low power loss
High surge capability
Glass passivated chip junction
Super-fast recovery time for high efficiency
High temperature soldering guaranteed: 260℃/10sec

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℃, unless otherwise stated)

	Symbol	UG5F	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	300	V
Maximum RMS Voltage	Vrms	210	V
Maximum DC blocking Voltage	Vdc	300	V
Maximum Average Forward Rectified Current 3/8″lead length	If(av)	5.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	150	A
Maximum Forward Voltage at rated Forward current	Vf	1.0	V
Maximum DC Reverse Current Ta =25℃ at rated DC blocking voltage Ta =125℃	Ir	5.0 250	μA
Maximum Reverse Recovery Time (Note 1)	Trr	25	nS
Typical Junction Capacitance (Note 2)	Cj	26	pF
Typical Thermal Resistance (Note 3)	Rth(jl)	18	℃/W
Storage and Operating Junction Temperature	Tstg,Tj	-55 to +150	℃

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
3. Thermal Resistance from Junction to Ambient at 3/8″lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES UG5F

Fig. 1 – Forward Current Derating Curves

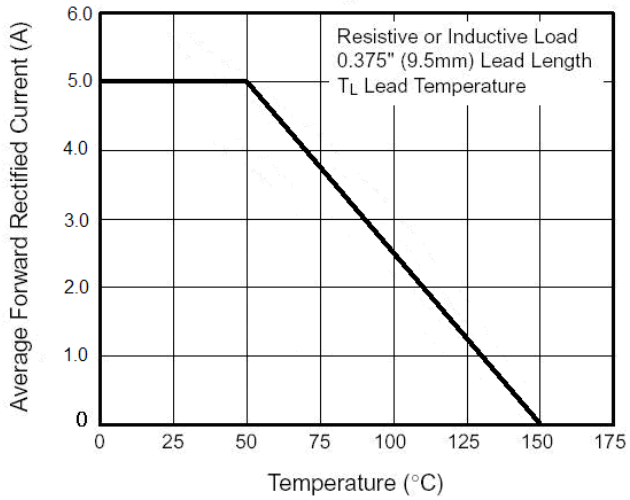


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current Per Leg

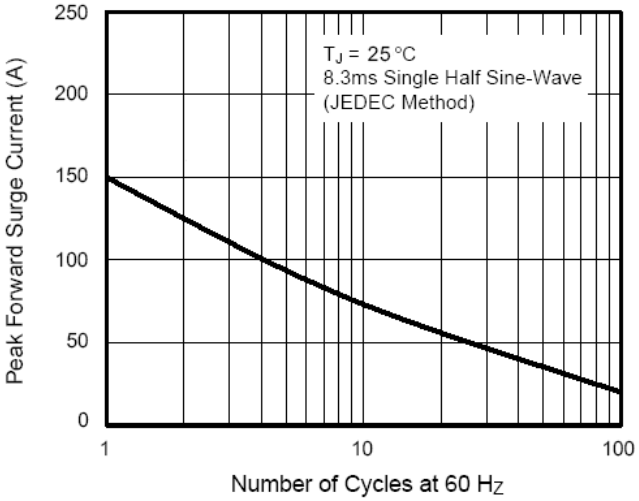


Fig. 3 – Typical Instantaneous Forward Characteristics

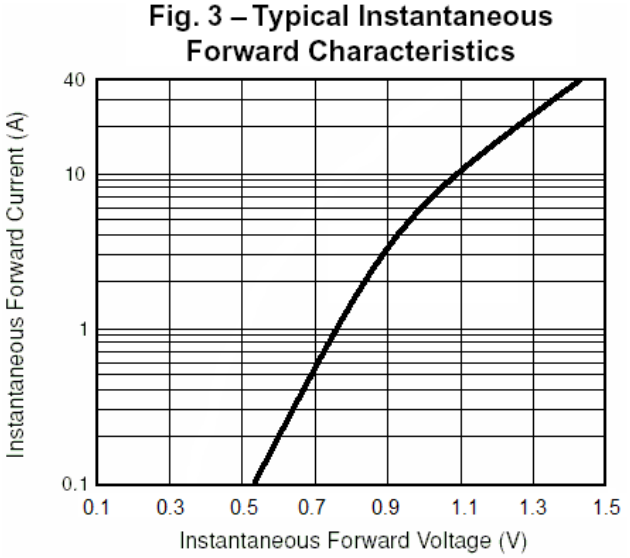


Fig. 4 – Typical Reverse Leakage Characteristics

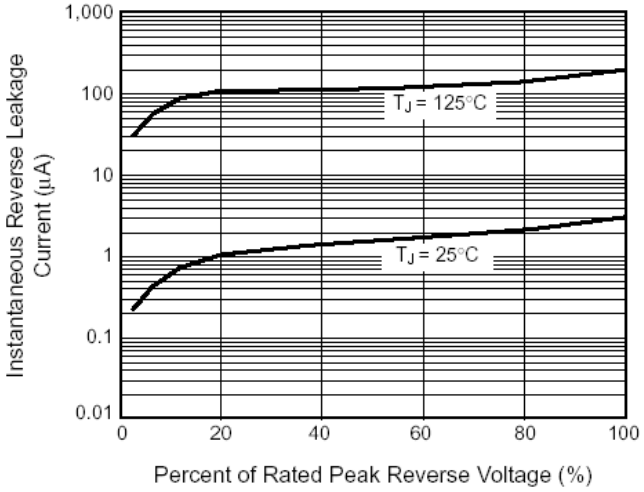


Fig. 5 – Typical Junction Capacitance