MUR460A

GLASS PASSIVATED JUNCTION
Ultra fast Plastic Rectifiers

VOLTAGE: 600V CURRENT:4.0A

GULF SEMI

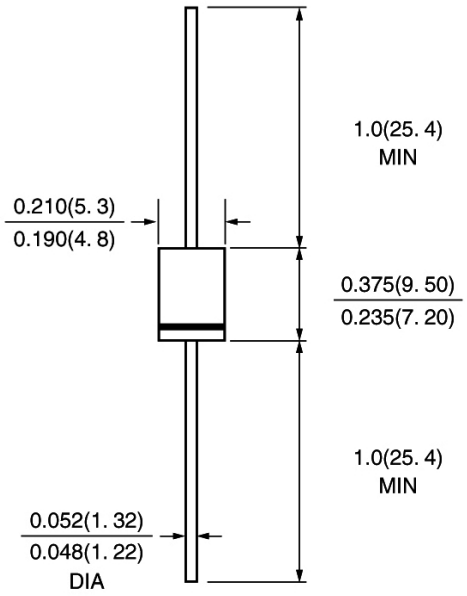
FEATURE

Plastic package has Underwriters Laboratories lammability Classification 94V-0
Ideally suited for use in very high frequency switching ower supplies, inverters and as free wheeling diodes
Ultra fast recovery time for high efficiency
Excellent high temperature switching
Glass passivated junction
High temperature soldering guaranteed:
250℃/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-201AD molded plastic body over passivated chip
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight: 0.045 oz., 1.2 g

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	MUR460A	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	600	V
Maximum RMS Voltage	Vrms	420	V
Maximum DC blocking Voltage	Vdc	600	V
Maximum Average Forward Rectified	If(av)	4.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	175	A
Maximum Forward Voltage at rated Forward Current and 25℃	Vf	1.28	V
Maximum Reverse Recovery Time (Note 1)	Trr	45	nS
Maximum DC Reverse Current Ta =25℃ at rated DC blocking voltage Ta =125℃	Ir	10 100	μA
Typical thermal resistance junction to ambient (Note 2)	Rth(ja)	26	℃/W
Storage and Operating Temperature Range	Tstg, Tj	-55 to +175	℃

Note:
1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
2. Lead length = 1/2" on P.C. board with 1.5" x1.5" copper surface

Fig. 1 – Forward Current Derating Curve

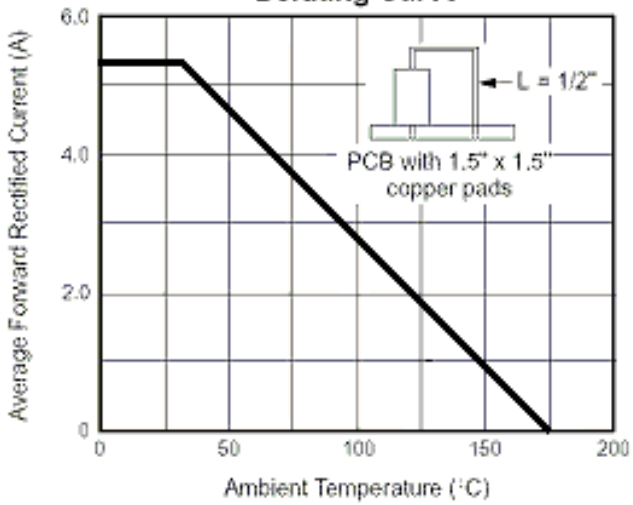


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

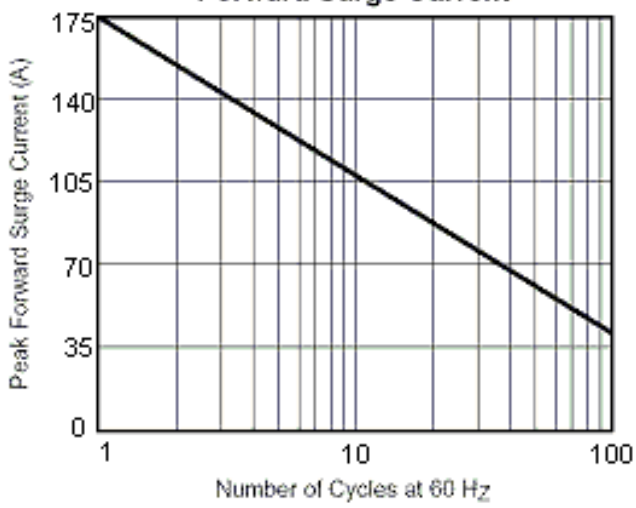


Fig. 3 – Typical Instantaneous Forward Characteristics

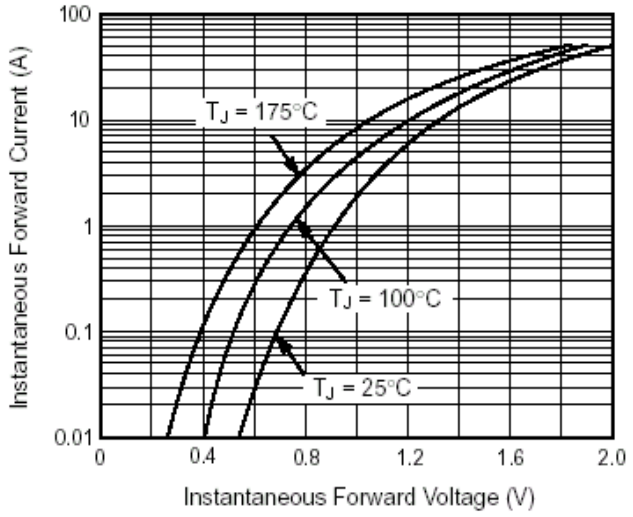


Fig. 4 – Typical Reverse Characteristics

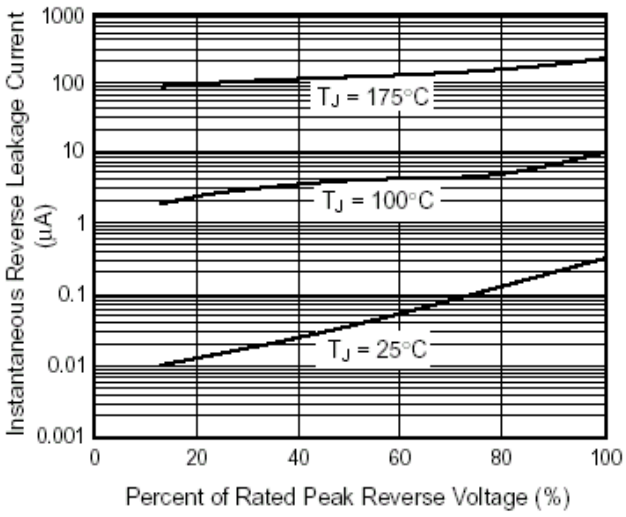


Fig. 5 – Typical Junction Capacitance per Leg