MUR4100

GLASS PASSIVATED JUNCTION
Ultra fast Plastic Rectifiers
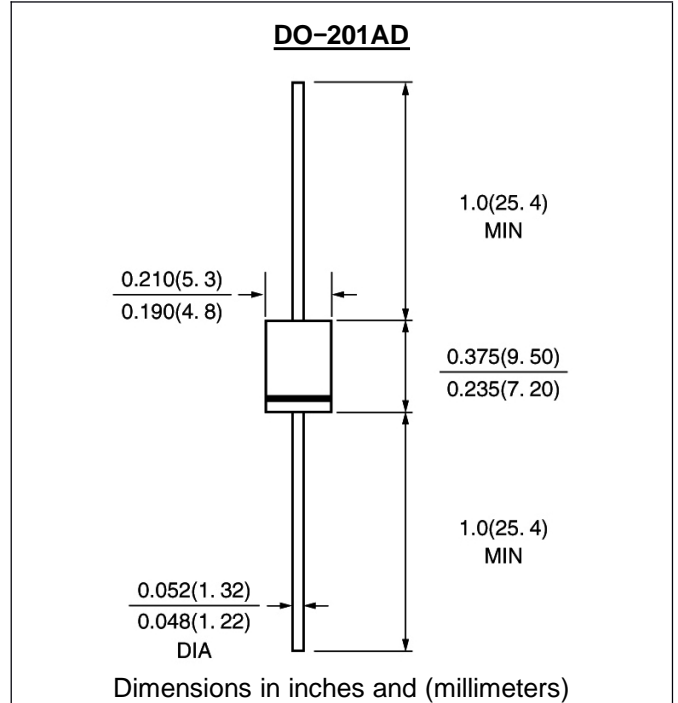
VOLTAGE: 1000V　　　　　　　**CURRENT:4.0A**

GULF SEMI

FEATURE

- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- Ideally suited for use in very high frequency switching power 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

1.0(25. 4) MIN

0.210(5. 3)
0.190(4. 8)

0.375(9. 50)
0.235(7. 20)

1.0(25. 4) MIN

0.052(1. 32)
0.048(1. 22)
DIA

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	MUR4100	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	1000	V
Maximum RMS Voltage	Vrms	700	
Maximum DC blocking Voltage	Vdc	1000	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	80	A
Maximum Forward Voltage at rated Forward Current and 25°C	Vf	1.85	V
Maximum Reverse Recovery Time　　　　　(Note 1)	Trr	75	nS
Maximum DC Reverse Current　　　　Ta =25°C at rated DC blocking voltage　　　　Ta =125°C	Ir	10 / 100	μA
Typical thermal resistance junction to ambient (Note 2)	Rth(ja)	28	℃/W
Storage and Operating Temperature Range	Tstg, Tj	-65 to +175	°C

Note:
1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
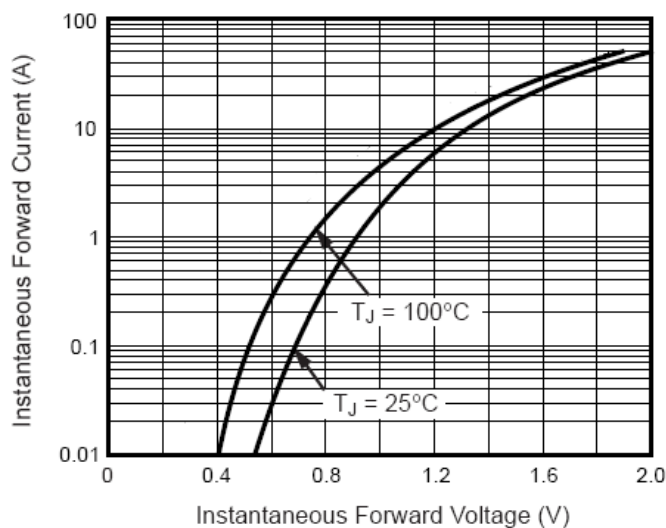2. Lead length = 1/2" on P.C. board with 1.5" x1.5" copper surface
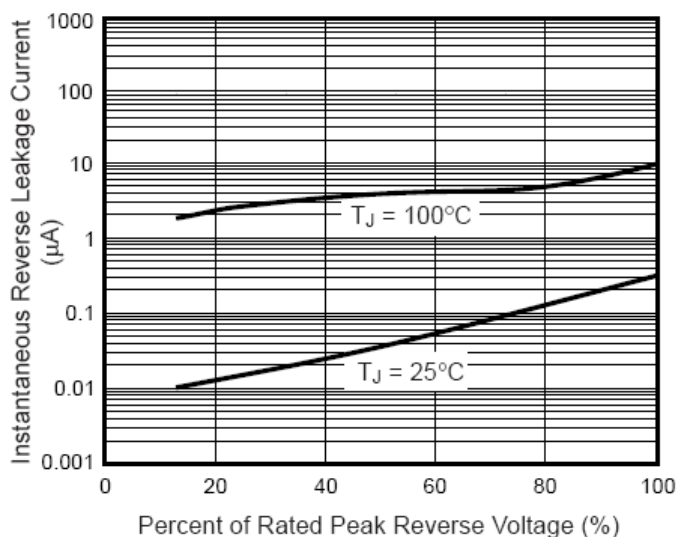
Fig. 1 – Forward Current Derating Curve
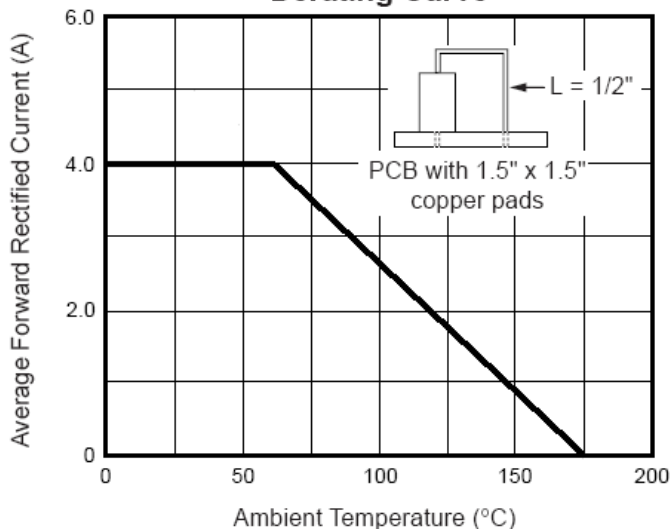
Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current
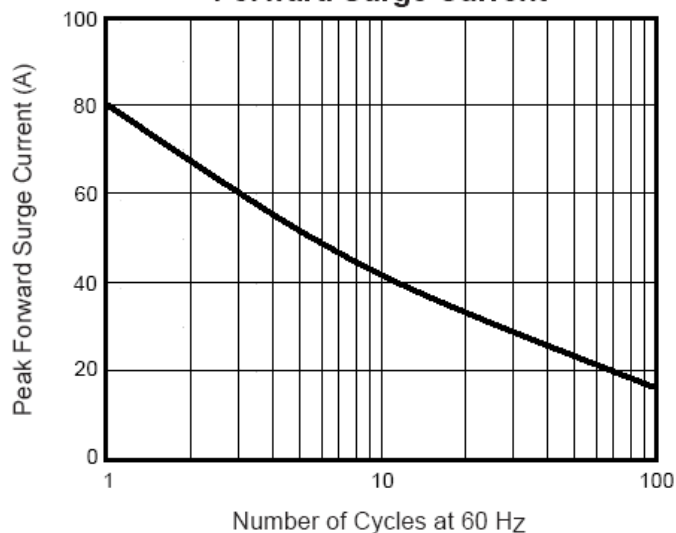
Fig. 3 – Typical Instantaneous Forward Characteristics

Fig. 4 – Typical Reverse Characteristics

Fig. 5 – Typical Junction Capacitance per Leg