



THE DATASHEET OF MUR460



Features

- Ideally suited for use in very high frequency switching power supplies, inverters and as a free wheeling diode
- Ultrafast recovery time for high efficiency
- Excellent high temperature switching
- Glass passivated junction



Package: DO-201AD

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 ounce, 1.2 grams

Maximum Ratings and Electrical Characteristics (T_A = 25°C unless otherwise noted)

Parameter	Symbol	MUR440	MUR460	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	400	600	V
Working Peak Reverse Voltage	V _{RWM}	400	600	V
Maximum DC Blocking Voltage	V _{DC}	400	600	V
Maximum Average Forward Rectified Current (See Figure 1)	I _{F(AV)}	4.0		A
Peak Forward Surge Current 8.3 mS Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	125.0		A
Maximum Instantaneous Forward Voltage ¹	at 3.0A, T _J =150°C	1.05		V
	at 3.0A, T _J =25°C	1.25		
	at 4.0A, T _J =25°C	1.28		
Maximum Instantaneous Reverse Current at Rated DC Blocking Voltage ¹	T _J =25°C	10.0		µA
	T _J =150°C	250		
Maximum Reverse Recovery Time at I _F =0.5A, I _R =1.0A, I _{rr} =0.25A	t _{rr}	50		nS
Maximum Reverse Recovery Time at I _F =1.0A, di/dt=50A/µS, V _R =30V, I _{rr} =10% I _{RM}	t _{rr}	75		nS
Maximum Forward Recovery Time at I _F =1.0A, di/dt=100A/µS, recovery to 1.0V	t _{rr}	50		nS
Typical Thermal Resistance Junction to Ambient ²	R _{θJA}	28		°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150		°C

- Notes:**
1. Pulse test: t_p=300µS, duty cycle < 2%
 2. Lead length = 1/2" on P.C. Board with 1.5" x 1.5" copper surface

Ratings and Characteristics Curves

($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig. 1 – Forward Current Derating Curve

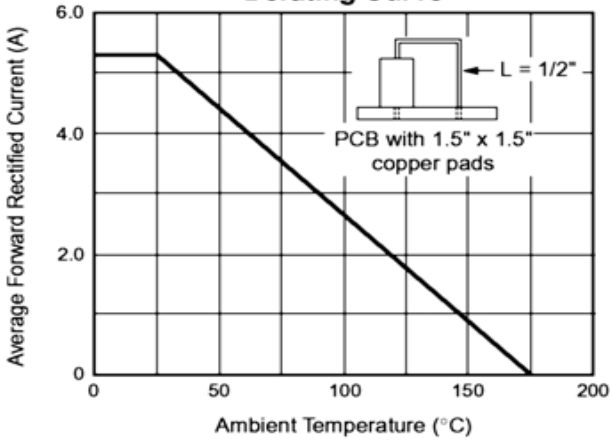


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

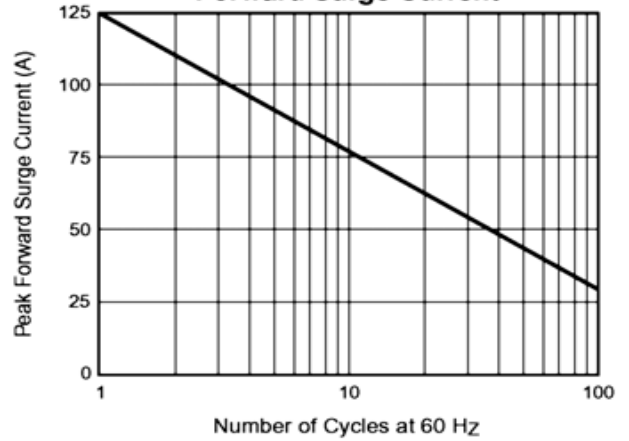


Fig. 3 – MUR460 Typical Instantaneous Forward Characteristics

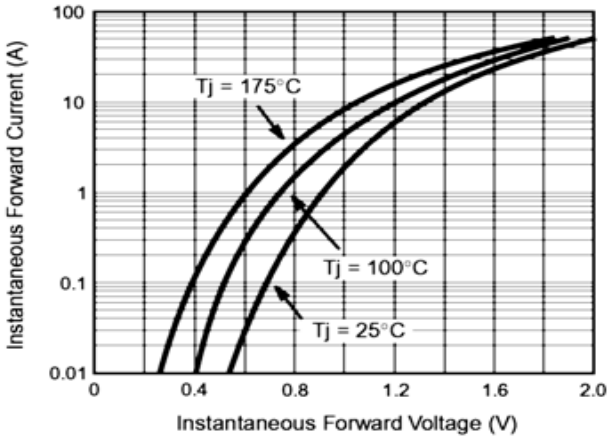


Fig. 4 – MUR460 Typical Reverse Characteristics

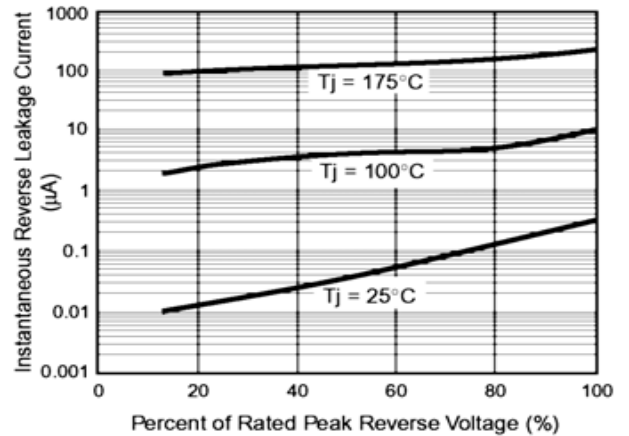
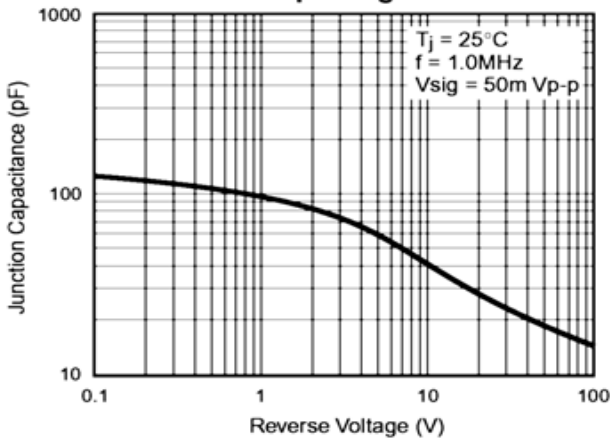


Fig. 5 – Typical Junction Capacitance per Leg

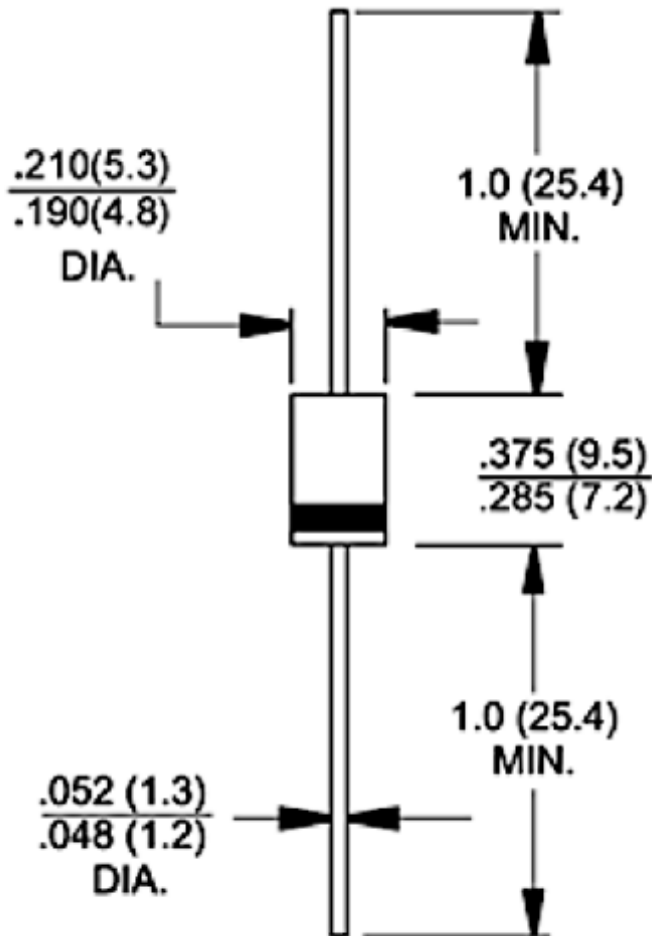


MUR440 and MUR460

Ultrafast Recovery Rectifiers
Reverse Voltage 400V to 600V Forward Current 4.0A

Package Outline Dimensions

DO-201AD



Dimensions in inches and (millimeters)

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