

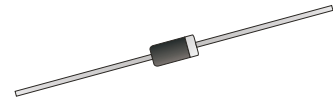
# Ultra Fast Recovery Rectifier

## MUR440-G Thru. MUR460-G

Voltage: 400 to 600 V

Current: 4.0 A

RoHS Device

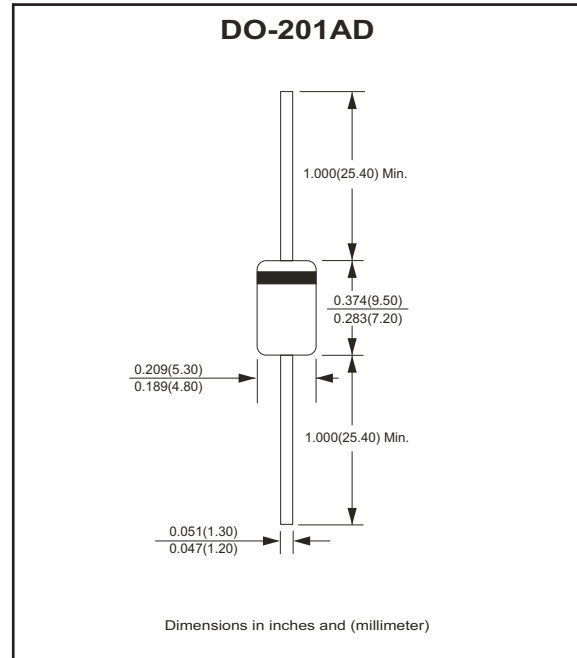


### Features

- Fast switching for high efficiency.
- Low forward voltage drop.
- High current capability.
- Low reverse leakage current.
- High surge current capability.

### Mechanical data

- Case: Molded plastic, DO-201AD
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Solderable per MIL-STD-202, method 208
- Polarity: Color band denotes cathode
- Mounting position: Any
- Weight: 1.1 grams



### Electrical Characteristics (at TA=25°C unless otherwise noted)

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load derate current by 20%.

Parameter	Symbol	MUR440-G	MUR460-G	Unit
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	400	600	V
Maximum peak reverse voltage	V <sub>RWM</sub>	280	420	V
Maximum DC blocking voltage	V <sub>DC</sub>	400	600	V
Maximum average forward rectified current T <sub>A</sub> =75°C	I <sub>(AV)</sub>	4.0		A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	150		A
Maximum instantaneous Forward voltage @ 4.0A @ 3.0A	V <sub>F</sub>	1.28 1.25		V
Maximum DC reverse current At rated DC blocking voltage T <sub>A</sub> =25°C T <sub>A</sub> =150°C	I <sub>R</sub>	5.0 250		μA
Maximum reverse recovery time at I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, I <sub>rr</sub> =0.25A	T <sub>rr</sub>	50		nS
Operating junction and Storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +175		°C

NOTES:

1. Pulse test : tp=300us,duty cycle<2%.
2. Lead length=1/2" on P.C. board with 1.5" x 1.5" copper surface.

## RATING AND CHARACTERISTIC CURVES (MUR440-G Thru. MUR460-G)

Fig.1 Forward Current Derating Curve

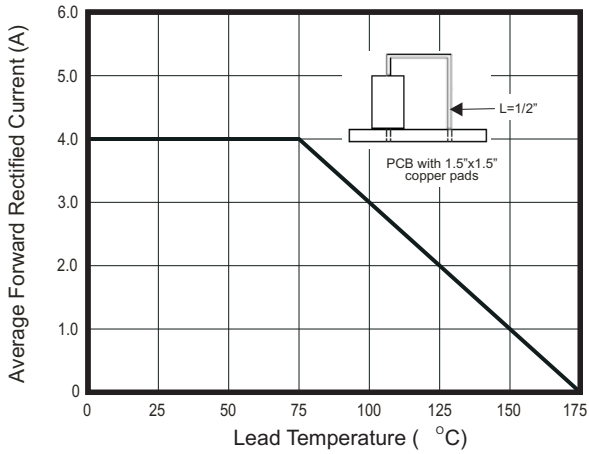


Fig.2 Maximum Non-repetitive Peak Forward Surge Current

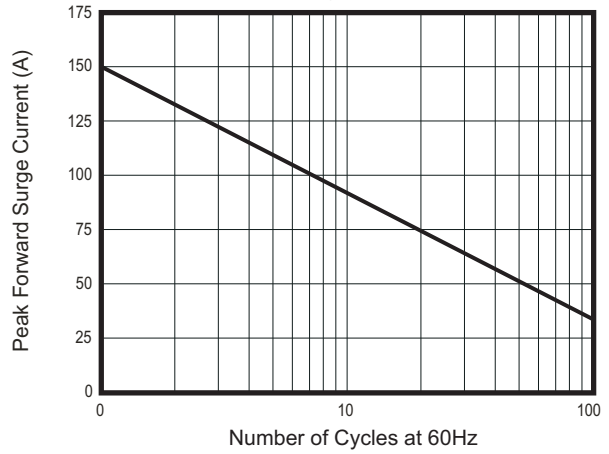


Fig.3 Typical Instantaneous Forward Characteristics

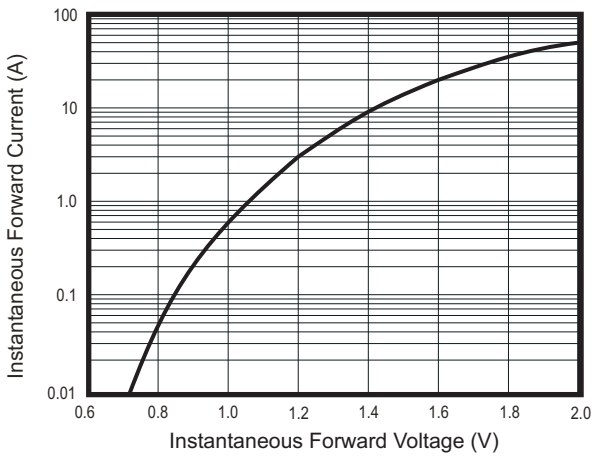


Fig.4 Typical Reverse Characteristics

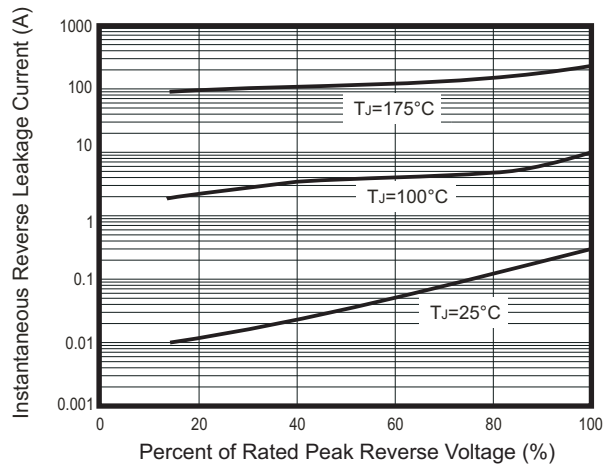


Fig.5 Typical Junction Capacitance per leg

