

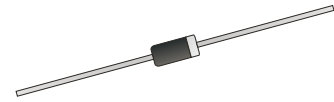
# Ultra Fast Recovery Rectifier

## MUR440-G Thru. MUR460-G

Voltage: 400 to 600 V

Current: 4.0 A

RoHS Device

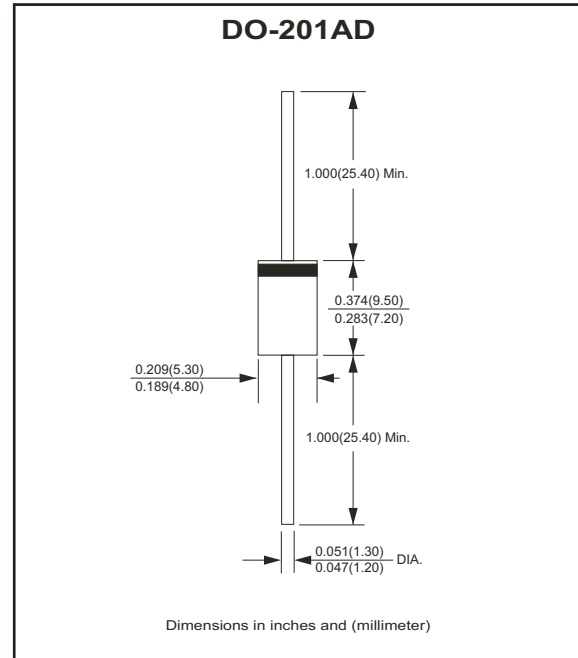


### Features

- 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

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	$V_{RRM}$	400	600	V
Maximum peak reverse voltage	$V_{RWM}$	280	420	V
Maximum DC blocking voltage	$V_{DC}$	400	600	V
Maximum average forward rectified current $T_A=75^\circ\text{C}$	$I_{(AV)}$	4.0		A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	150		A
Maximum instantaneous Forward voltage @ 4.0A @ 3.0A	$V_F$	1.28 1.25		V
Maximum DC reverse current At rated DC blocking voltage $T_A=25^\circ\text{C}$ $T_A=150^\circ\text{C}$	$I_R$	5.0 250		$\mu\text{A}$
Maximum reverse recovery time at $I_F=0.5\text{A}$ , $I_R=1.0\text{A}$ , $I_{rr}=0.25\text{A}$	$T_{rr}$	50		nS
Operating junction and Storage temperature range	$T_j, T_{STG}$	-55 to +175		$^\circ\text{C}$

#### NOTES:

1. Pulse test :  $t_p=300\mu\text{s}$ , 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

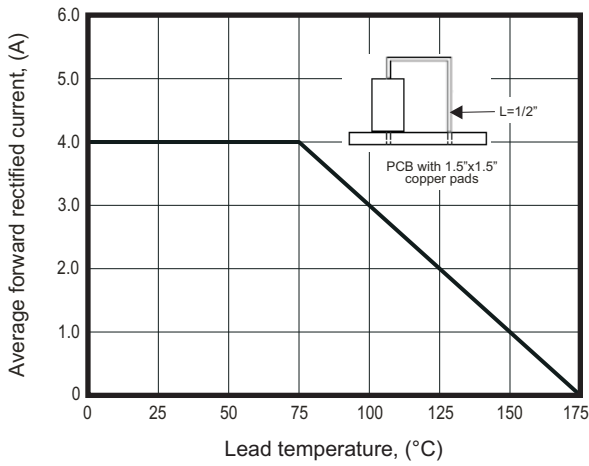


Fig.2- Maximum non-repetitive peak forward surge current

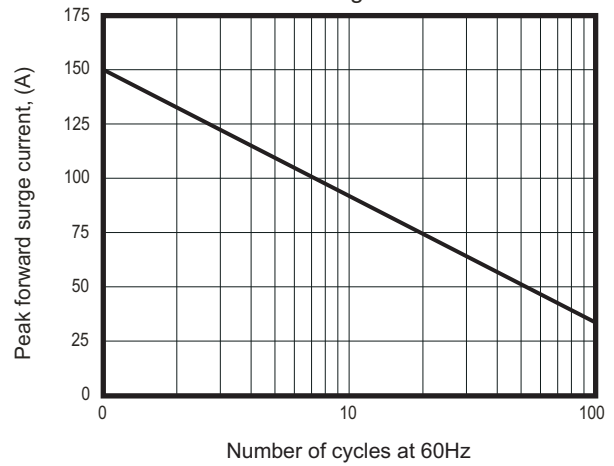


Fig.3- Typical instantaneous forward characteristics

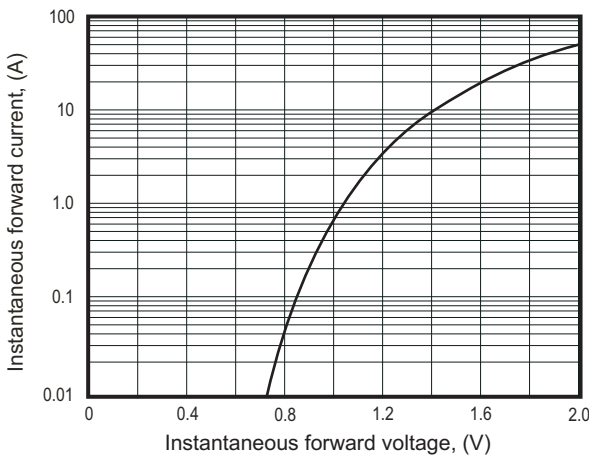


Fig.4- Typical reverse characteristics

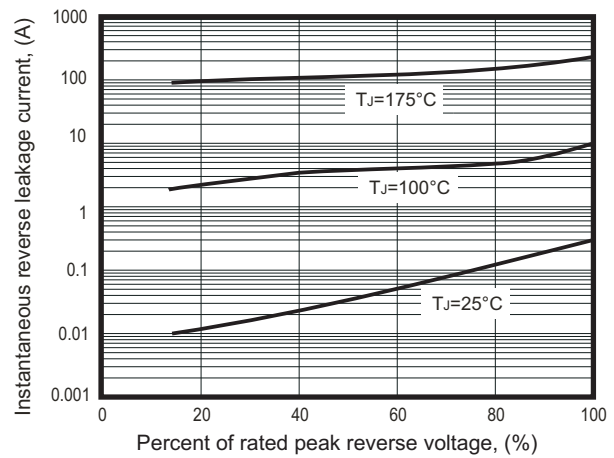
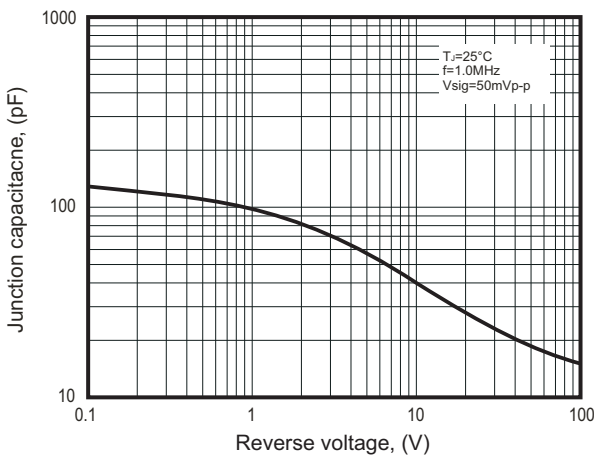


Fig.5- Typical junction capacitance per leg



## Marking Code

Part Number	Marking code	Packaging
MUR440T-G	MUR440	REEL
MUR440A-G	MUR440	AMMO
MUR460T-G	MUR460	REEL
MUR460A-G	MUR460	AMMO

Note:

1) Suffix code after part number to specify packaging item .

Packaging	Code
REEL PACK	T
AMMO PACK	A
BULK PACK	B
TUBE PACK	P



XXX = Product type marking code

## Standard Packaging

Case Type	REEL PACK	
	REEL ( pcs )	Reel Size (inch)
DO-201AD	1,200	13

Case Type	AMMO PACK
	BOX ( pcs )
DO-201AD	1,200