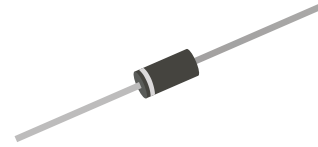


MUR440-G Thru. MUR460-G

Voltage: 400 to 600 V

Current: 4.0 A

RoHS Device

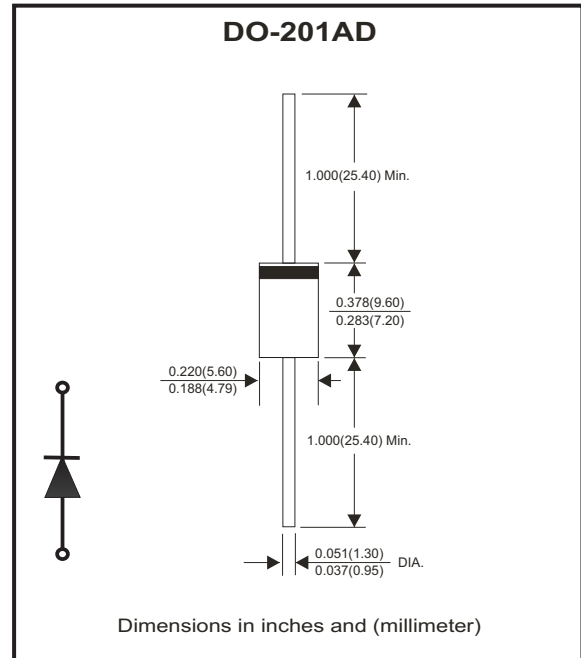


Features

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

Mechanical data

- Case: Molded plastic, DO-201AD
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Solderable per MIL-STD-750 method 2026
- Polarity: Color band denotes cathode
- Mounting position: Any
- Weight: 1.1 grams(approx.).



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 $T_L=55^\circ\text{C}$	$I_{(AV)}$	4		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 @ 4A	V_F	1.28		V
Maximum DC reverse current at rated DC blocking voltage	I_R	$T_J=25^\circ\text{C}$	10	μA
		$T_J=125^\circ\text{C}$	200	
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
Typical junction capacitance (Note 1)	C_J	60		pF
Typical thermal resistance (Note 2)	$R_{\theta JA}$	50		$^\circ\text{C/W}$
Operating junction temperature	T_J	-55~+150		$^\circ\text{C}$
Storage temperature range	T_{STG}	-55~+150		$^\circ\text{C}$

NOTES:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 volts.
2. Thermal resistance from junction to ambient, both leads are attached to heatsink 20x 20*1t(mm) copper plate at lead length 5mm.

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

Fig.1 - Forward Current Derating Curve

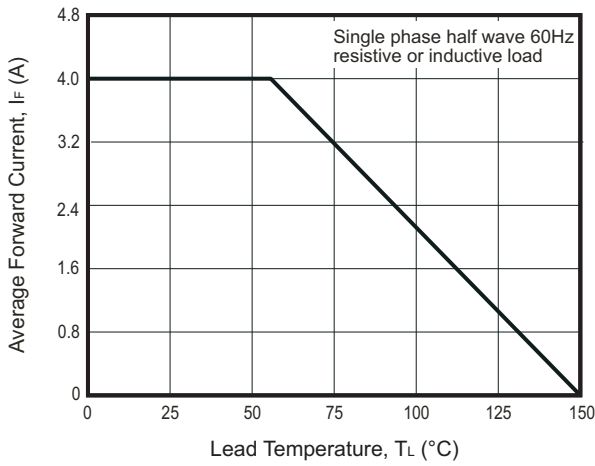


Fig.2 - Maximum Non-Repetitive Peak Forward Surge Current

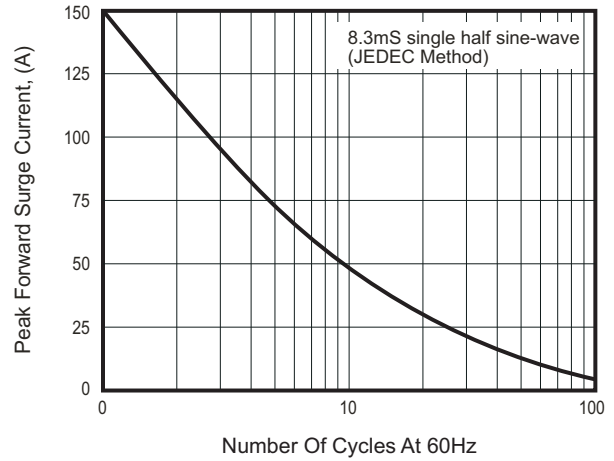


Fig.3 - Typical Instantaneous Forward Characteristics

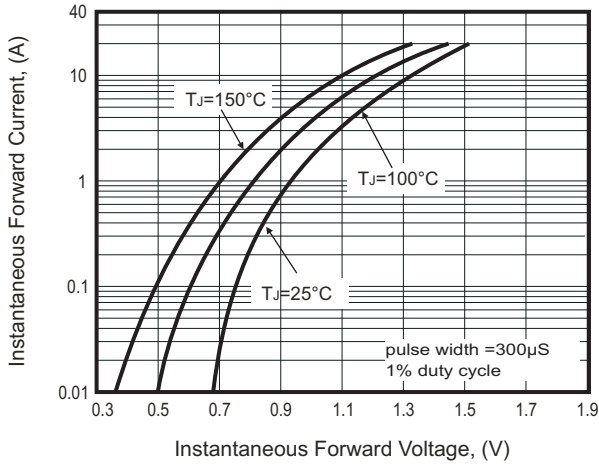


Fig.4 - Typical Instantaneous Reverse Characteristics

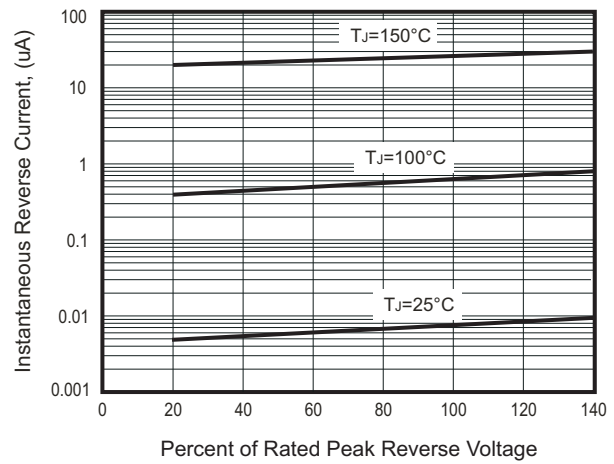
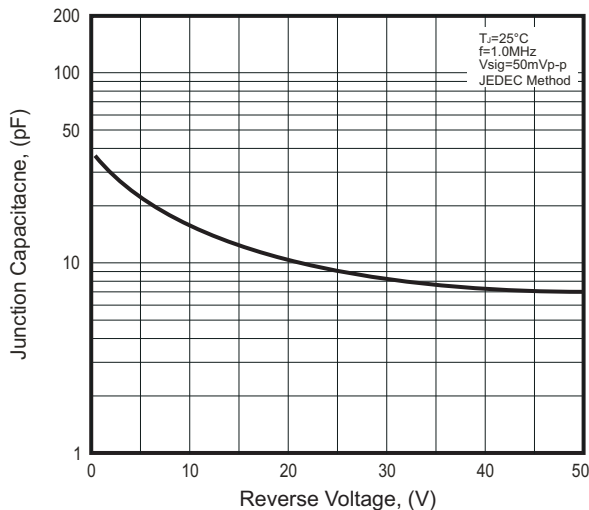
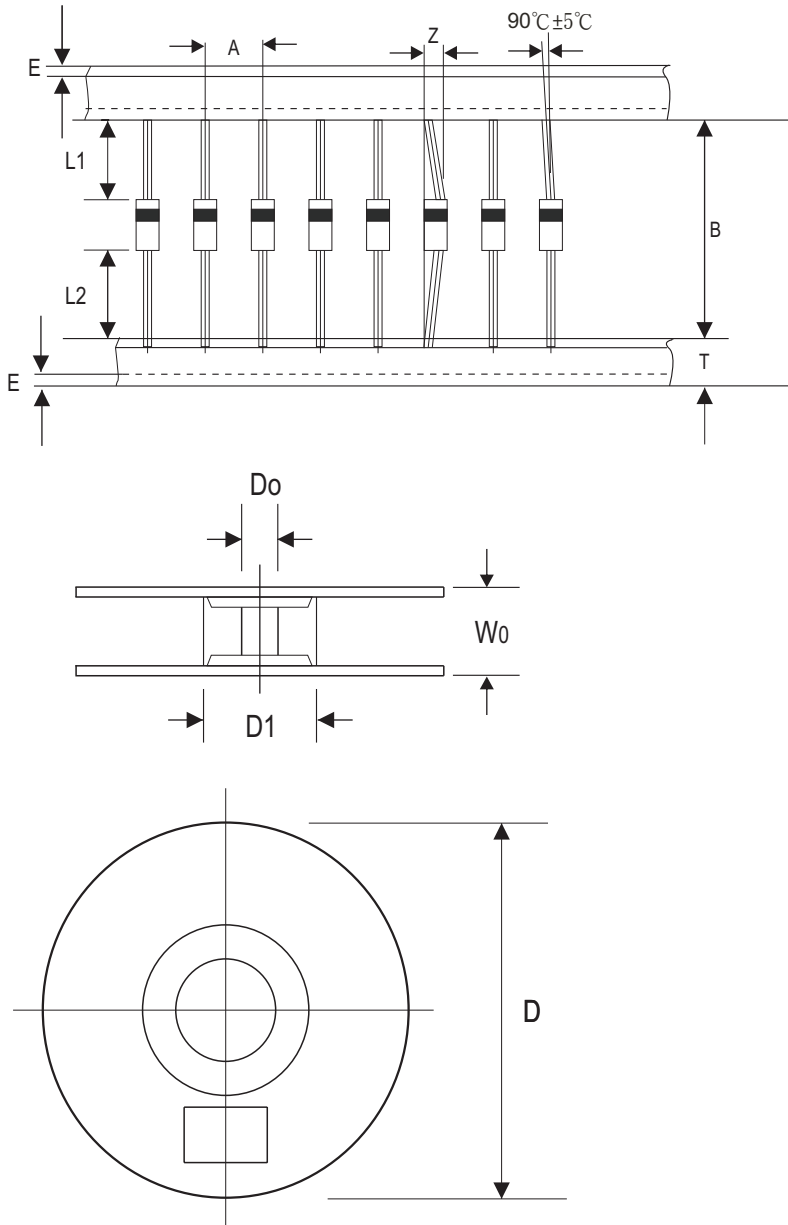


Fig.5 - Typical Junction Capacitance



Taping Specification For Axial Lead Diodes



DO-201AD	SYMBOL	A	B	Z	T	E	L1-L2
	(mm)	10.00 ± 0.50	52.40 ± 1.50	1.60(max)	6.00 ± 0.40	3.00(max)	1.00(max)
	(inch)	0.394 ± 0.020	2.063 ± 0.059	0.063(max)	0.236 ± 0.016	0.118(max)	0.039(max)

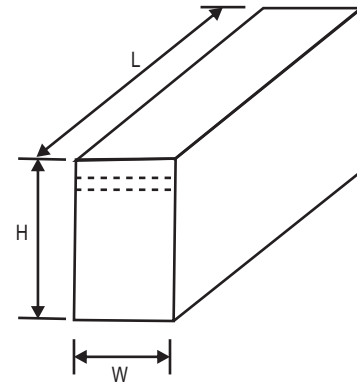
DO-201AD	SYMBOL	D	D0	D1	W0
	(mm)	330.00 ± 2.00	16.60 ± 0.40	82.20 ± 0.30	77.00 ± 1.00
	(inch)	12.992 ± 0.079	0.654 ± 0.016	3.236 ± 0.012	3.031 ± 0.039

Reel Packing

DO-201AD	SYMBOL	Box Length	Box Width	Box height
	(mm)	350 ± 5.00	350 ± 5.00	350 ± 5.00
	(inch)	13.780 ± 0.197	13.780 ± 0.197	13.780 ± 0.197

Ammo Packing

DO-201AD	SYMBOL	Box Length	Box Width	Box height
	(mm)	288 ± 5.00	148 ± 5.00	80 ± 5.00
	(inch)	11.339 ± 0.197	5.827 ± 0.197	3.150 ± 0.197



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