

MUR1500 - MUR1560

15A GLASS PASSIVATED SUPERFAST RECTIFIER

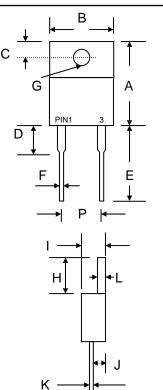


Features

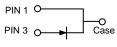
- **Glass Passivated Die Construction**
- Superfast 35nS and 50nS Recovery Time
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- Soft Recovery Characteristics
- Epoxy Meets UL 94V-0 Classification
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

Mechanical Data

- Case: TO-220A, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 1.9 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 0.6 N.m Max.
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



TO-220A					
Dim	Min	Max			
Α	13.90	15.90			
В	9.80	10.70			
С	2.54	3.43			
D	3.56	4.56			
Е	12.70	14.73			
F	0.51	0.96			
G	3.55 Ø	4.09 Ø			
Н	5.75	6.85			
-	4.16	5.00			
J	2.03	2.92			
К	0.30	0.65			
L	1.14	1.40			
Р	4.83	5.33			
All Dimensions in mm					



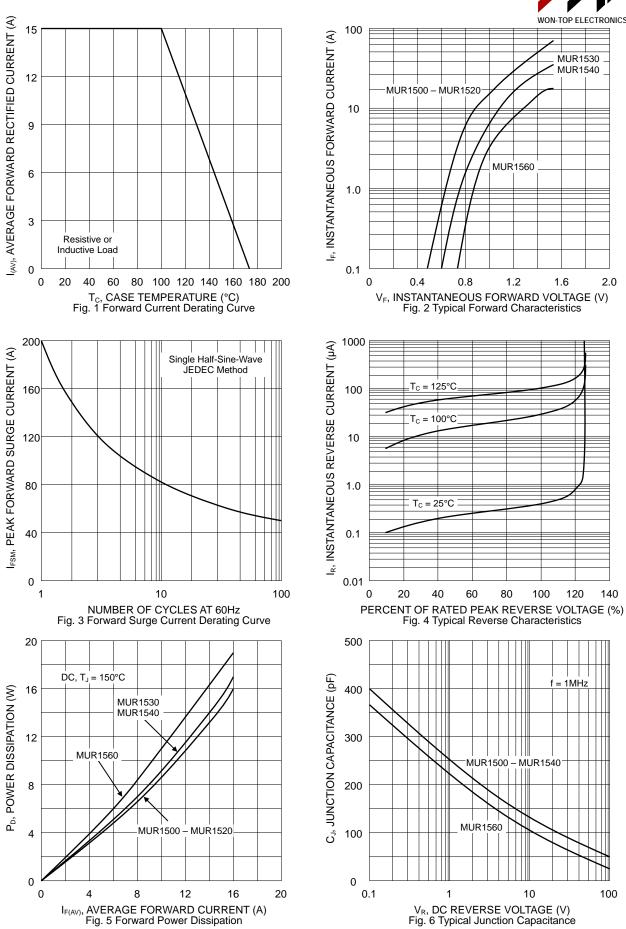
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	MUR 1500	MUR 1510	MUR 1515	MUR 1520	MUR 1530	MUR 1540	MUR 1560	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	150	200	300	400	600	V
RMS Reverse Voltage	VR(RMS)	35	70	105	140	210	280	420	V
Average Rectified Output Current $@T_c = 100^{\circ}C$	lo	15						А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	200				A			
Forward Voltage $@I_F = 15A$	Vfm	1.05 1.25 1.5			1.5	V			
Peak Reverse Current $@T_c = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_c = 100^{\circ}C$	Irm	10 500				μA			
Reverse Recovery Time (Note 1)	trr	35 50					nS		
Typical Junction Capacitance (Note 2)	Сл	175 145					pF		
Thermal Resistance Junction to Ambient Thermal Resistance Junction to Case	R JA R JC	73 1.5						°C/W	
Operating and Storage Temperature Range	TJ, TSTG	-65 to +175						°C	

Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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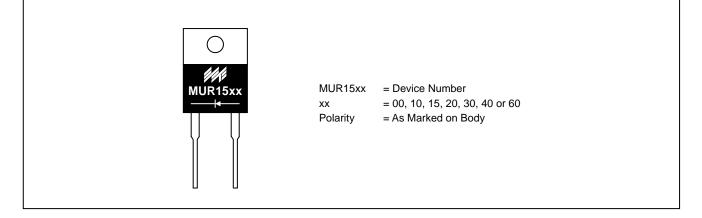


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MARKING INFORMATION



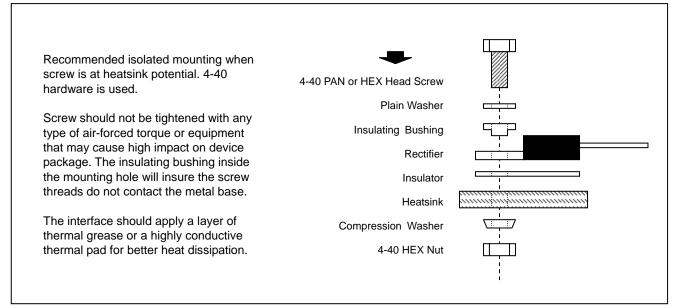
PACKAGING INFORMATION

BULK

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
525 x 31 x 6	50	555 x 145 x 95	2,000	572 x 306 x 218	8,000	19.0

Note: 1. Anti-static tube, water clear color.

RECOMMENDED SCREW MOUNTING ARRANGEMENT





Product No.	Package Type	Shipping Quantity
MUR1500	TO-220A	50 Units/Tube
MUR1510	TO-220A	50 Units/Tube
MUR1515	TO-220A	50 Units/Tube
MUR1520	TO-220A	50 Units/Tube
MUR1530	TO-220A	50 Units/Tube
MUR1540	TO-220A	50 Units/Tube
MUR1560	TO-220A	50 Units/Tube

ORDERING INFORMATION

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

 To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, MUR1500-LF.

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