

MURF1500 - MURF1560

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: ITO-220A, Full Molded Plastic

Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

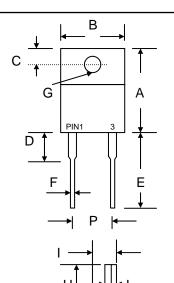
Polarity: See Diagram

Weight: 1.9 grams (approx.)

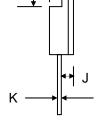
Mounting Position: Any

Mounting Torque: 0.6 N.m Max.

Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



ITO-220A					
Dim	Min	Max			
Α	14.60	15.40			
В	9.70	10.30			
С	2.55	2.85			
D	1	4.16			
E	13.00	13.80			
F	0.30	0.90			
G	3.00 Ø	3.50 Ø			
Н	6.30	6.90			
I	4.20	4.80			
J	2.50	2.90			
K	0.36	0.80			
L	2.60	3.30			
Р	4.83	5.33			
All Dimensions in mm					



PIN 1	
PIN 3	→

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%.

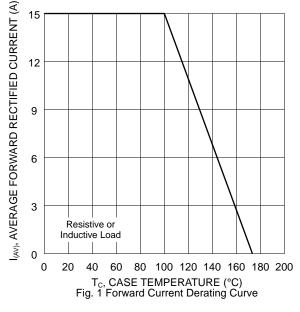
Characteristic	Symbol	MURF 1500	MURF 1510	MURF 1515	MURF 1520	MURF 1530	MURF 1540	MURF 1560	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	150	200	300	400	600	V
RMS Reverse Voltage	VR(RMS)	35	70	105	140	210	280	420	V
Average Rectified Output Current @T _C = 100°C	lo	15						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	Ігѕм	200					А		
Forward Voltage @I _F = 15A	Vғм	1.05 1.25 1.5		1.5	V				
	IRM				10 500				μΑ
Reverse Recovery Time (Note 1)	trr		3	5			50		nS
Typical Junction Capacitance (Note 2)	Сл	175 145					145	pF	
Thermal Resistance Junction to Ambient Thermal Resistance Junction to Case	R JA R JC	75 4.0						°C/W	
RMS Isolation Voltage, t = 1 min	Viso	1500					V		
Operating and Storage Temperature Range	TJ, TSTG			-	65 to +17	5			°C

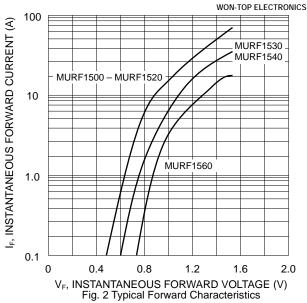
Note: 1. Measured with I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

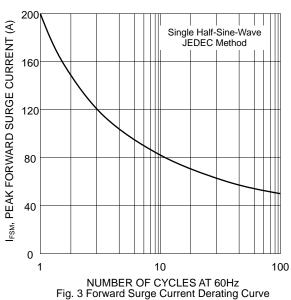
Fax: 02-25215390 銓曦企業有限公司 Tel: 02-25651052

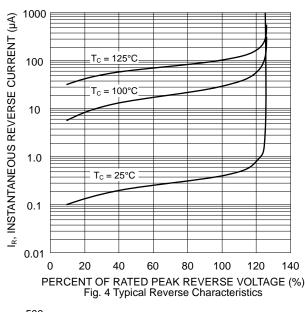
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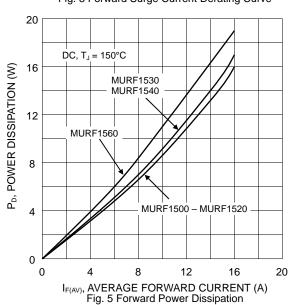


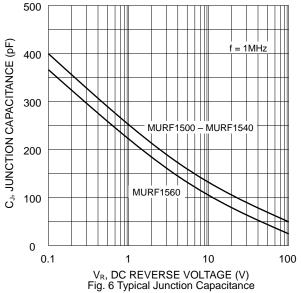






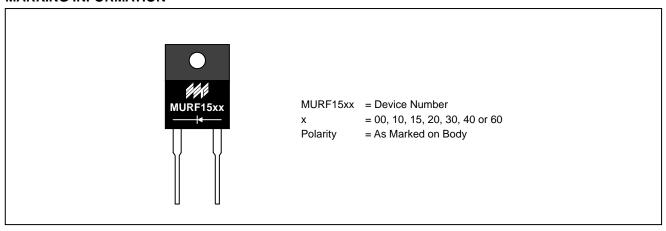








MARKING INFORMATION



PACKAGING INFORMATION

BULK

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

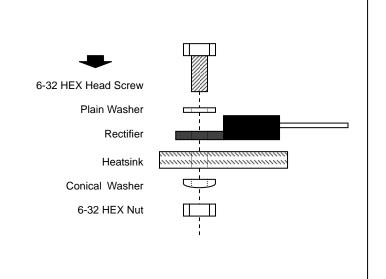
Note: 1. Anti-static tube, water clear color.

RECOMMENDED SCREW MOUNTING ARRANGEMENT

The full molded plastic package affords a major reduction of hardware as compared to a standard TO-220 package. However, precautions should be made in mounting procedure.

A conical washer should be used to apply proper force to the device. Screw should not be tightened with any type of air-forced torque or equipment that may cause crack on device package.

A layer of thermal grease or thermal pad in the interface will be considerably helpful for heat dissipation.



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ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
MURF1500	ITO-220A	50 Units/Tube
MURF1510	ITO-220A	50 Units/Tube
MURF1515	ITO-220A	50 Units/Tube
MURF1520	ITO-220A	50 Units/Tube
MURF1530	ITO-220A	50 Units/Tube
MURF1540	ITO-220A	50 Units/Tube
MURF1560	ITO-220A	50 Units/Tube

- 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" 2. suffix to part number above. For example, MURF1500-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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