

MUR3020CT - MUR3060CT

30A GLASS PASSIVATED DUAL SUPERFAST RECTIFIER



Features

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

Mechanical Data

Case: TO-220, Molded Plastic

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

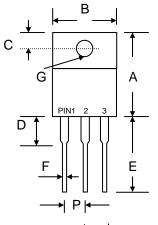
Polarity: See Diagram

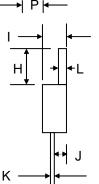
Weight: 1.9 grams (approx.)

Mounting Position: Any

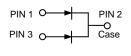
Mounting Torque: 0.6 N.m Max.

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





TO-220				
Dim	Min	Max		
Α	13.90	15.90		
В	9.80	10.70		
С	2.54	3.43		
D	3.56	4.56		
E	12.70	14.73		
F	0.51	0.96		
G	3.55 Ø	4.09 Ø		
Н	5.75	6.85		
I	4.16	5.00		
J	2.03	2.92		
K	0.30	0.65		
L	1.14	1.40		
Р	2.29	2.79		
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%.

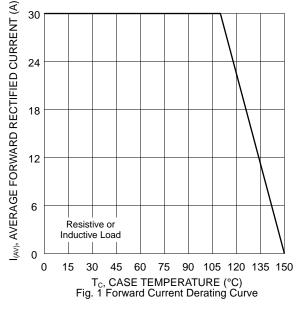
Characteristic		Symbol	MUR 3020CT	MUR 3030CT	MUR 3040CT	MUR 3060CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	200	300	400	600	V
RMS Reverse Voltage		VR(RMS)	140	210	280	420	V
Average Rectified Output Current Total Device @T _C = 110°C Per Diode		lo	30 15			А	
Non-Repetitive Peak Forward Surge Single Half Sine-Wave Superimposed (JEDEC Method)		IFSM	200			А	
Forward Voltage per diode	@I _F = 15A	VFM	1.05	1.	25	1.7	V
Peak Reverse Current At Rated DC Blocking Voltage	@T _C = 25°C @T _C = 100°C	lкм		10 500		μA	
Reverse Recovery Time (Note 1)		trr	35 50			nS	
Typical Junction Capacitance (Note 2)		CJ	175 145		145	pF	
Thermal Resistance Junction to Ambient per diode Thermal Resistance Junction to Case per diode		R JA R JC	60 2.4		•	°C/W	
Operating and Storage Temperature Range		ТЈ, Тѕтс		-55 to	+150		°C

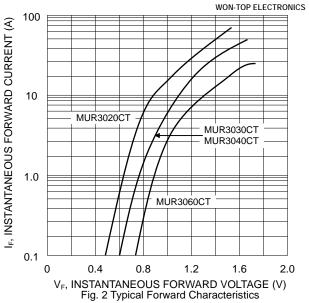
Note: 1. Measured with I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

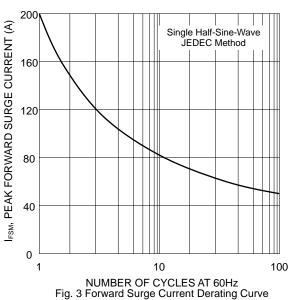
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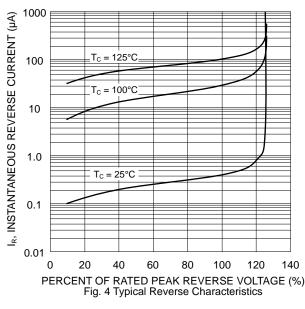
MUR3020CT - MUR3060CT

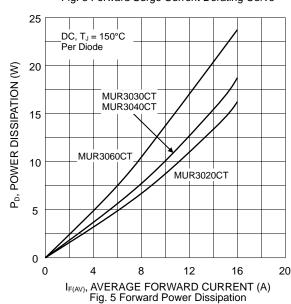


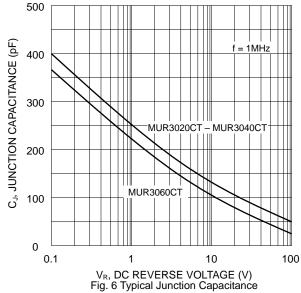






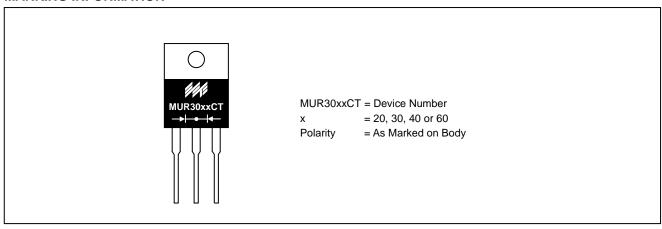








MARKING INFORMATION



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

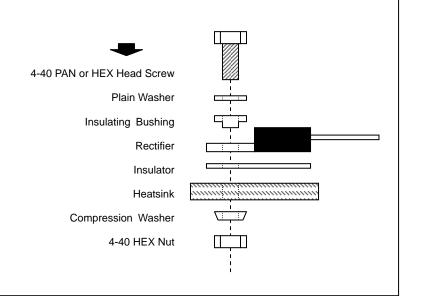
Note: 1. Anti-static tube, water clear color.

RECOMMENDED SCREW MOUNTING ARRANGEMENT

Recommended isolated mounting when screw is at heatsink potential. 4-40 hardware is used.

Screw should not be tightened with any type of air-forced torque or equipment that may cause high impact on device package. The insulating bushing inside the mounting hole will insure the screw threads do not contact the metal base.

The interface should apply a layer of thermal grease or a highly conductive thermal pad for better heat dissipation.



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ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
MUR3020CT	TO-220	50 Units/Tube
MUR3030CT	TO-220	50 Units/Tube
MUR3040CT	TO-220	50 Units/Tube
MUR3060CT	TO-220	50 Units/Tube

- 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, MUR3020CT-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.

Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road,

Chine Chen Dist., Kaohsiung 806, Taiwan **Phone:** 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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