

MURF3020CT – MURF3060CT

30A GLASS PASSIVATED DUAL SUPERFAST RECTIFIER

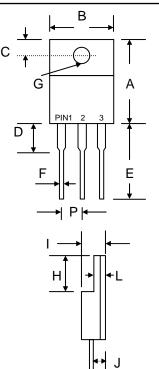


Features

- **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

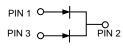
Mechanical Data

- Case: ITO-220, 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



Κ

ITO-220				
Dim	Min	Max		
Α	14.60	15.40		
в	9.70	10.30		
С	2.55	2.85		
D	_	4.16		
ш	13.00	13.80		
F	0.50	0.75		
G	3.00 Ø	3.50 Ø		
Н	6.30	6.90		
-	4.20	4.80		
J	2.50 2.90			
K	0.50	0.75		
L	2.60	3.30		
Р	2.29	2.79		
All Dimensions in mm				

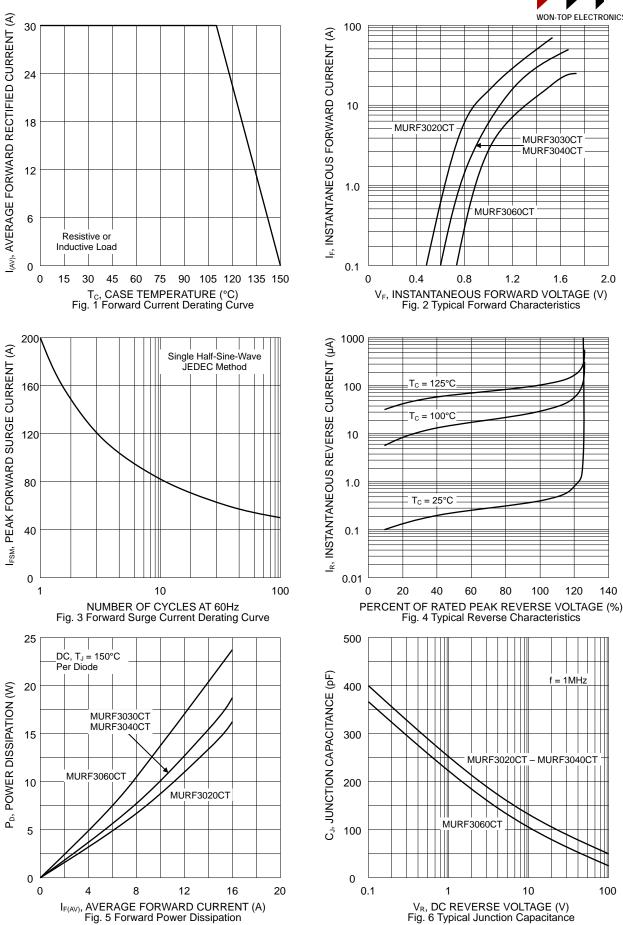


Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic	Symbol	MURF 3020CT	MURF 3030CT	MURF 3040CT	MURF 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 CurrentTotal Device $@T_c = 110^{\circ}C$ Per Diode	lo			80 5		А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM		2	00		А
Forward Voltage per diode $@I_F = 15A$	Vfm	1.05	1.	25	1.7	V
Peak Reverse Current $@T_c = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_c = 100^{\circ}C$	Iгм		-	0 00		μA
Reverse Recovery Time (Note 1)	trr	35		50		nS
Typical Junction Capacitance (Note 2)	Сл		175		145	pF
Thermal Resistance Junction to Ambient per diode Thermal Resistance Junction to Case per diode	R JA R JC			62 .0		°C/W
RMS Isolation Voltage, t = 1 min	Viso	1500			V	
Operating and Storage Temperature Range	TJ, Tsтg	-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.

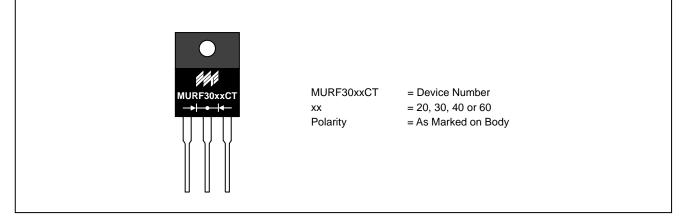
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MARKING INFORMATION



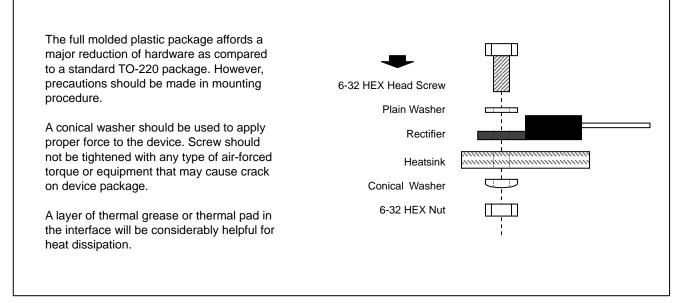
PACKAGING INFORMATION

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
MURF3020CT	ITO-220	50 Units/Tube
MURF3030CT	ITO-220	50 Units/Tube
MURF3040CT	ITO-220	50 Units/Tube
MURF3060CT	ITO-220	50 Units/Tube

ORDERING INFORMATION

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

2. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, MURF3020CT-LF.

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