

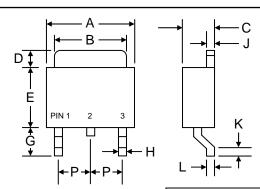
MURD1020CT - MURD1060CT

10A SURFACE MOUNT GLASS PASSIVATED DUAL SUPERFAST RECTIFIER



Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Profile Package
- High Surge Current Capability
- Low Power Loss, High Efficiency
- Super-Fast Recovery Time
- Ideally Suited for Use in High Frequency SMPS, Inverters, and As Free Wheeling Diodes



Mechanical Data

Case: DPAK/TO-252, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

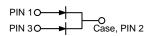
Polarity: See Diagram

Weight: 0.3 grams (approx.)

Mounting Position: Any

Marking: Device Code, See Page 3

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



DPAK/TO-252				
Dim	Min	Max		
Α	6.05	6.70		
В	5.05	5.55		
С	2.10	2.50		
D	1.05	1.25		
E	5.48	6.20		
G	2.55	3.40		
Н	0.55	0.90		
J	0.40 0.60			
K	0.95 1.60			
L	0.45	0.55		
Р	2.30 Typical			
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%.

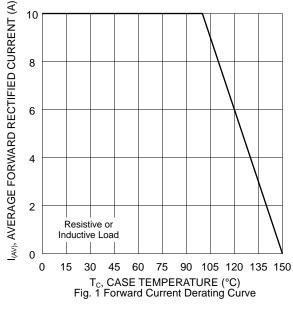
Characteristic		Symbol	MURD 1020CT	MURD 1030CT	MURD 1040CT	MURD 1060CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	200	300	400	600	V
RMS Reverse Voltage		VR(RMS)	140	210	280	420	V
Average Rectified Output Current Total Device @T _C = 100°C Per Diode		lo	10 5.0			Α	
Non-Repetitive Peak Forward Surge 8.3ms Single Half Sine-Wave Superi Rated Load (JEDEC Method)		IFSM		10	00		А
Forward Voltage per diode	$@I_F = 5.0A$	VFM	0.95	1	.3	1.7	V
Peak Reverse Current At Rated DC Blocking Voltage	@T _C = 25°C @T _C = 100°C	IRM			0		μΑ
Reverse Recovery Time (Note 1)		t _{rr}	35		50		nS
Typical Junction Capacitance (Note:	2)	Сл	70		50		pF
Thermal Resistance Junction to Ambient (Note 3) Thermal Resistance Junction to Lead (Note 3)		R JA R JC	80 6.5			°C/W	
Operating and Storage Temperature	Range	ТЈ, Тѕтс		-55 to	+150		°C

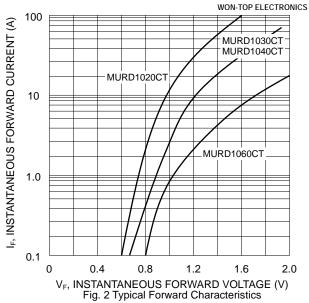
1. Measured with $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC. 3. Mounted on PCB with minimum recommended pad sizes per diode.

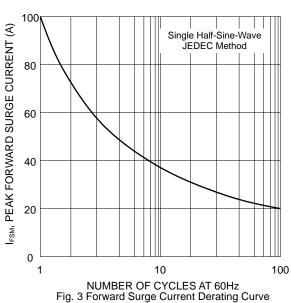
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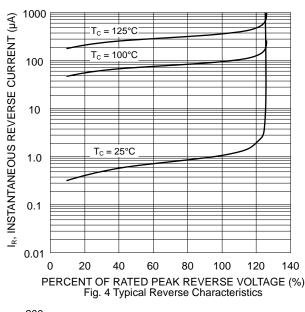
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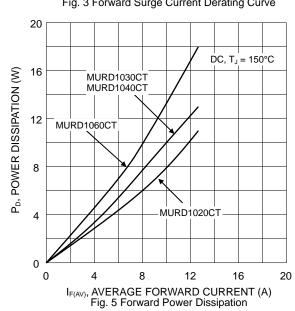


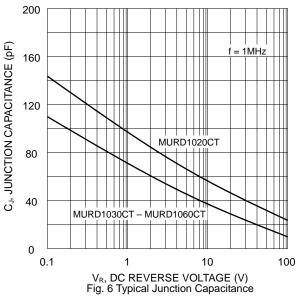










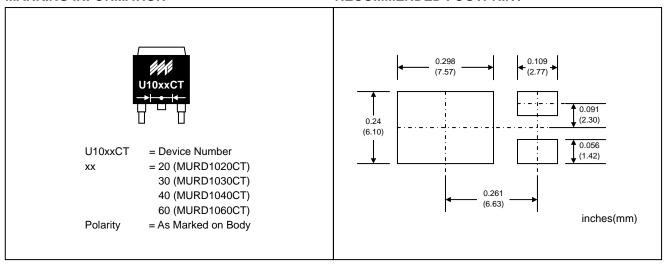




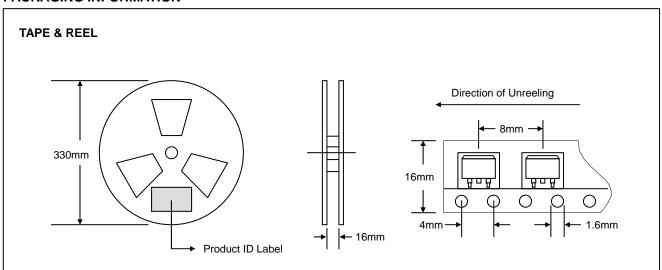
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MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



Reel Diameter (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)
330	2,500	340 x 337 x 45	5,000	370 x 370 x 420	40,000	18.0

Note: 1. Paper reel, white or gray color.

2. Components are packed in accordance with EIA standard 481-1 and 481-2.

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ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
MURD1020CT-T3	DPAK	2500/Tape & Reel
MURD1030CT-T3	DPAK	2500/Tape & Reel
MURD1040CT-T3	DPAK	2500/Tape & Reel
MURD1060CT-T3	DPAK	2500/Tape & Reel

- 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, MURD1020CT-T3-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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