

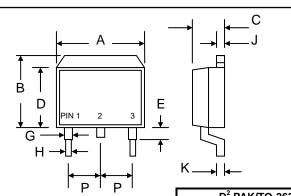
MURB1020CT - MURB1060CT

10A SURFACE MOUNT GLASS PASSIVATED DUAL SUPERFAST RECTIFIER



Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Super-Fast Recovery Time
- High Voltage Capability
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in High Voltage, High Frequency Inverters, Free Wheeling, and Switching **Power Supplies**



Mechanical Data

Case: D²PAK/TO-263, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

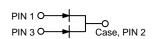
Polarity: See Diagram

Weight: 1.7 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



D* PAK/TO-263				
Dim	Min	Max		
Α	9.80	10.40		
В	9.60	10.60		
С	4.40	4.80		
D	8.50	9.10		
E	_	2.80		
G	1.00	1.40		
Н		0.99		
J	1.20	1.40		
K	0.30	0.70		
Р	2.35	2.75		
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%.

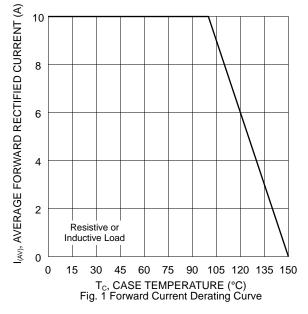
Characteristic	Symbol	MURB 1020CT	MURB 1030CT	MURB 1040CT	MURB 1060CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	200	300	400	600	V
RMS Reverse Voltage	VR(RMS)	140	210	280	420	٧
Average Rectified Output Current Total Device $@T_C = 100$ °C Per Diode	lo	10 5.0			А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	150			Α	
Forward Voltage per diode $@I_F = 5.0A$	VFM	0.95	1	.3	1.7	V
Peak Reverse Current $@T_C = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_C = 100^{\circ}C$	lкм		10 500		μA	
Reverse Recovery Time (Note 1)	trr	trr 35 50		nS		
Typical Junction Capacitance (Note 2)	Сл	70 50			pF	
Thermal Resistance Junction to Ambient per diode Thermal Resistance Junction to Case per diode	R JA R JC	60 3.0			°C/W	
Operating and Storage Temperature Range	Тл, Твтс		-55 to	+150		°C

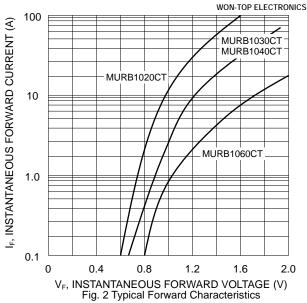
Note: 1. Measured with I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

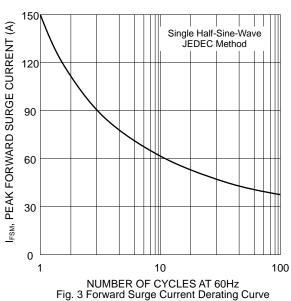
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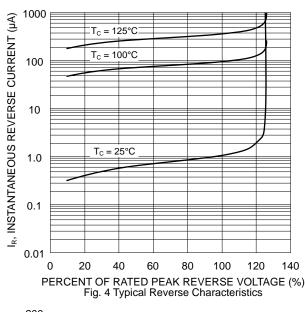
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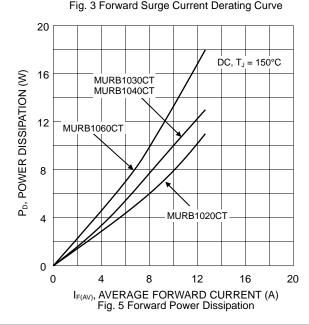


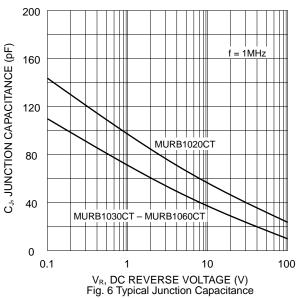










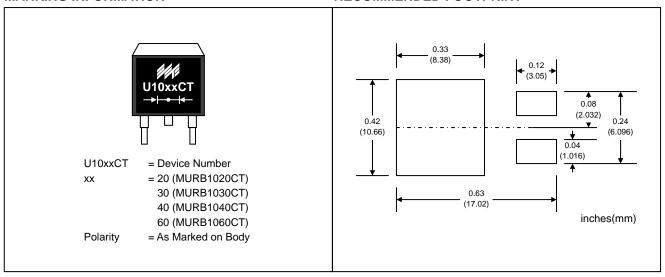




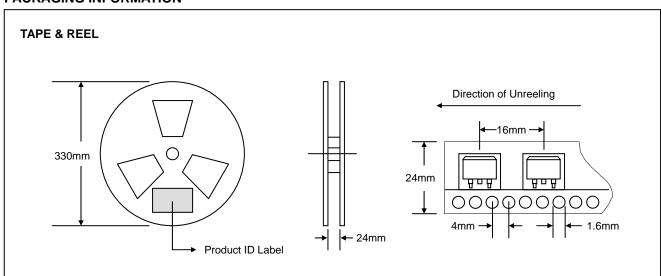
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MARKING INFORMATION

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	800	340 x 337 x 45	800	370 x 370 x 420	6,400	15.0

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

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



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
MURB1020CT-T3	D ² PAK	800/Tape & Reel
MURB1030CT-T3	D ² PAK	800/Tape & Reel
MURB1040CT-T3	D ² PAK	800/Tape & Reel
MURB1060CT-T3	D ² PAK	800/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, MURB1020CT-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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