

MURB3020 – MURB3060

30A SURFACE MOUNT GLASS PASSIVATED SUPERFAST RECTIFIER

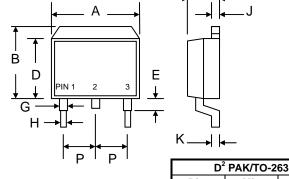


Features

- **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



-O Case, PIN 2

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			
К	0.30	0.70			
Р	2.35	2.75			
All Dimensions in mm					

С

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

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

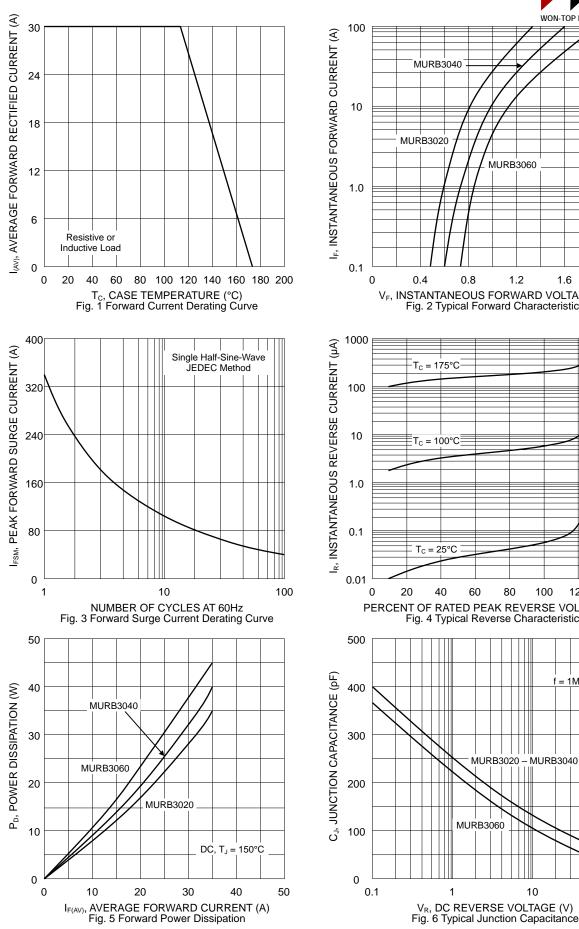
Characteristic		Symbol	MURB3020	MURB3040	MURB3060	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	200	400	600	V
RMS Reverse Voltage		VR(RMS)	140	280	420	V
Average Rectified Output Current	@T _c = 110°C	lo	30		А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		IFSM	325			A
Forward Voltage	@I _F = 30A	Vfm	1.1	1.3	1.5	V
Peak Reverse Current At Rated DC Blocking Voltage	@T _c = 25°C @T _c = 100°C	Irm	250 1.0		μA mA	
Reverse Recovery Time (Note 1)		trr	35 50		60	nS
Typical Junction Capacitance (Note 2)		CJ	17	75	145	pF
Thermal Resistance Junction to Ambient Thermal Resistance Junction to Case		R JA R JC		73 1.2		°C/W
Operating and Storage Temperature Range		TJ, TSTG	-65 to +175		°C	

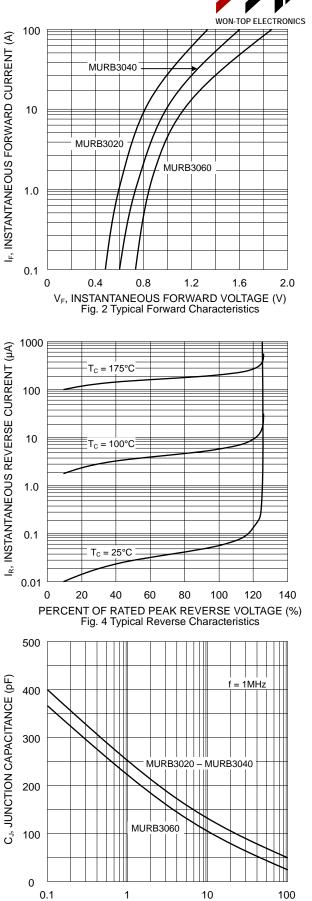
PIN 1 O

PIN 3 O-

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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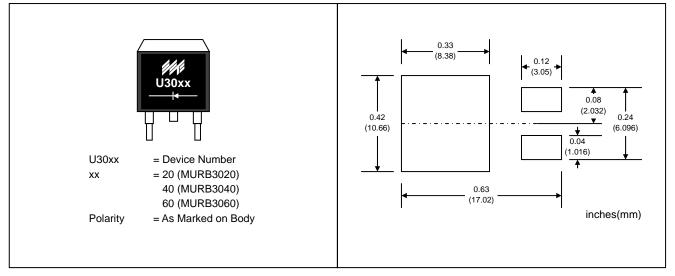


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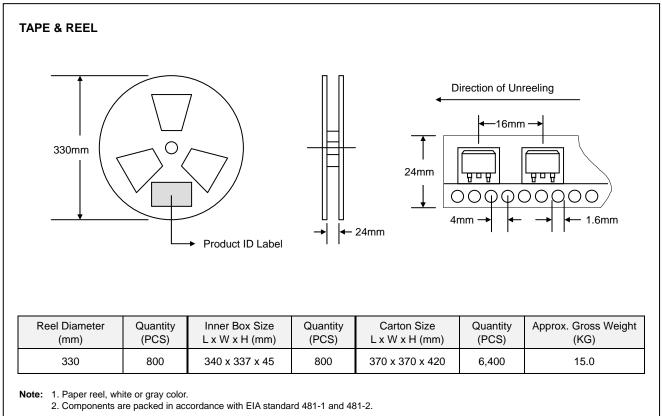


RECOMMENDED FOOTPRINT

MARKING INFORMATION



PACKAGING INFORMATION





Product No.	Package Type	Shipping Quantity
MURB3020-T3	D ² PAK	800/Tape & Reel
MURB3040-T3	D ² PAK	800/Tape & Reel
MURB3060-T3	D ² PAK	800/Tape & Reel

ORDERING INFORMATION

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" suffix to part number above. For example, MURB3020-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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