

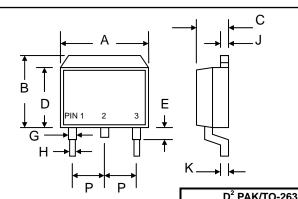
MURB1620 - MURB1660

16A 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

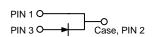
Polarity: See Diagram

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



D PAN/10-203					
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	MURB1620	MURB1630	MURB1640	MURB1660	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 @T _C = 100°C	lo	16			Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM		29	50		А
Forward Voltage @I _F = 16A	Vғм	0.975	1	.3	1.5	V
	IRM	10 500		μΑ		
Reverse Recovery Time (Note 1)	trr	35		50		nS
Typical Junction Capacitance (Note 2)	Сı		175		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

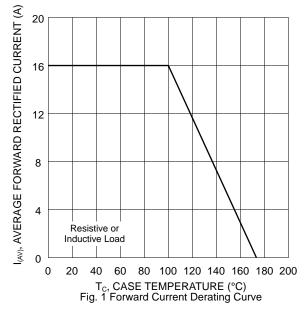
Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.

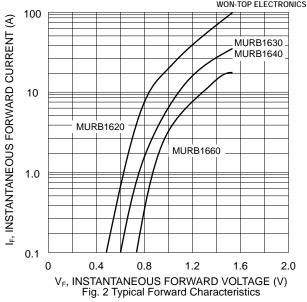
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

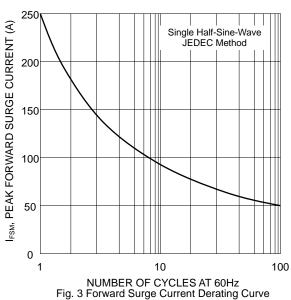
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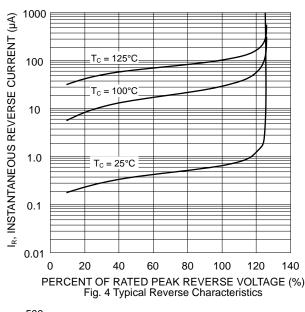
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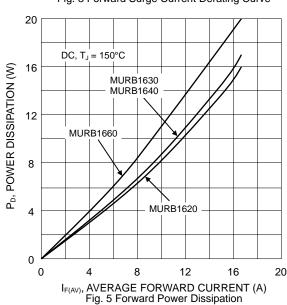


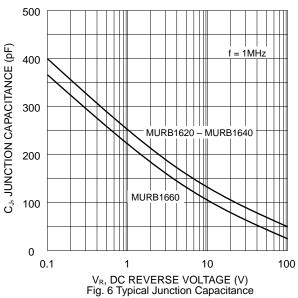








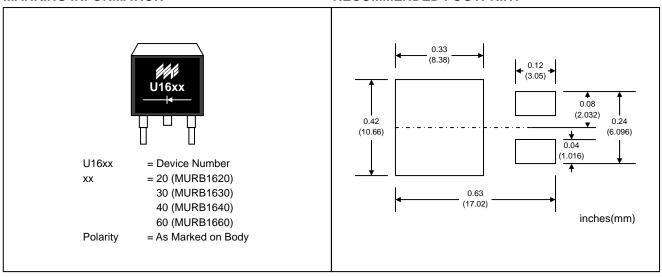




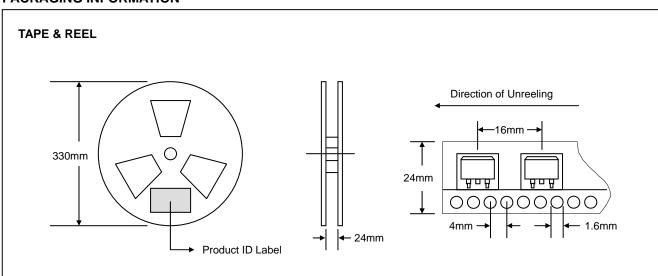


MARKING INFORMATION

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.

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



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
MURB1620-T3	D ² PAK	800/Tape & Reel
MURB1630-T3	D ² PAK	800/Tape & Reel
MURB1640-T3	D ² PAK	800/Tape & Reel
MURB1660-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, MURB1620-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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