

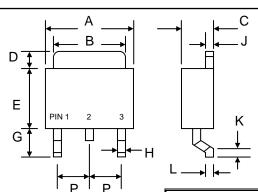
MURD520/S - MURD560/S

5.0A SURFACE MOUNT GLASS PASSIVATED SUPERFAST DIODE



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

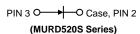
Weight: 0.3 grams (approx.)

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





Dim Min Max A 6.05 6.65 B 5.05 5.55 C 2.25 2.40 D 1.05 1.25 E 5.48 6.08 G 2.55 3.00 H 0.55 0.90 J 0.49 0.55 K 0.95 1.25	DPAK/TO-252				
B 5.05 5.55 C 2.25 2.40 D 1.05 1.25 E 5.48 6.08 G 2.55 3.00 H 0.55 0.90 J 0.49 0.55	Dim	Min	Max		
C 2.25 2.40 D 1.05 1.25 E 5.48 6.08 G 2.55 3.00 H 0.55 0.90 J 0.49 0.55	Α	6.05	6.65		
D 1.05 1.25 E 5.48 6.08 G 2.55 3.00 H 0.55 0.90 J 0.49 0.55	В	5.05 5.55			
E 5.48 6.08 G 2.55 3.00 H 0.55 0.90 J 0.49 0.55	С	2.25 2.40			
G 2.55 3.00 H 0.55 0.90 J 0.49 0.55	D	1.05	1.25		
H 0.55 0.90 J 0.49 0.55	Е	5.48 6.08			
J 0.49 0.55	G	2.55 3.00			
	Н	0.55 0.90			
K 0.95 1.25	J	J 0.49 0.55			
	K	0.95 1.25			
L 0.49 0.55	L	0.49 0.55			
P 2.30 Typical	Р				
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%.

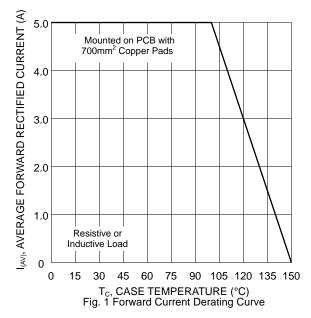
Characteristic		Symbol	MURD520/S	MURD530/S	MURD540/S	MURD560/S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	200	300	400	600	V
RMS Reverse Voltage		VR(RMS)	140	210	280	420	V
Average Rectified Output Current @T _C = 100°C		lo	5.0			Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		IFSM	75				А
Forward Voltage	@I _F = 5.0A	VFM	0.95	1	25	1.7	V
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 100°C	IRM		_	.0		μΑ
Reverse Recovery Time (Note 1)		t _{rr}		3	5		nS
Typical Junction Capacitance (Note 2)		Cı	45			pF	
Thermal Resistance Junction to Ambient (Note 3) Thermal Resistance Junction to Lead (Note 3)		R JA R JC	49 2.0				°C/W
Operating and Storage Temperature Range		TJ, TSTG	-55 to +150				°C

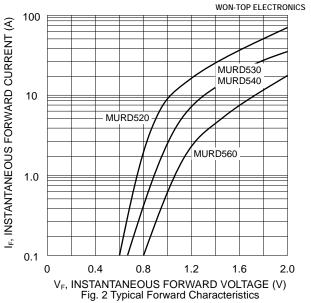
Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC. 3. Mounted on PCB with 700mm² copper pads.

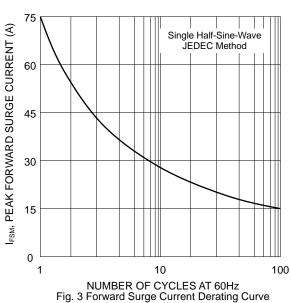
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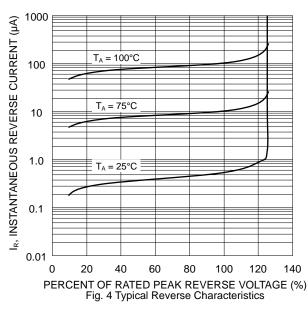
MURD520/S - MURD560/S

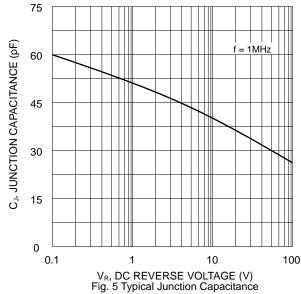








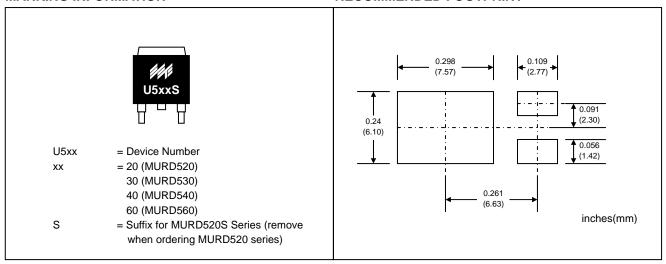




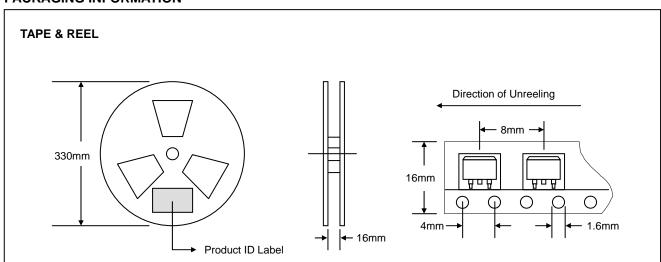


MARKING INFORMATION

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.



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
MURD520/S-T3	DPAK	2500/Tape & Reel
MURD530/S-T3	DPAK	2500/Tape & Reel
MURD540/S-T3	DPAK	2500/Tape & Reel
MURD560/S-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, MURD520-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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