MURD520/S - MURD560/S

5.0A SURFACE MOUNT GLASS PASSIVATED SUPERFAST DIODE

Features

- Fred Chip Planar 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

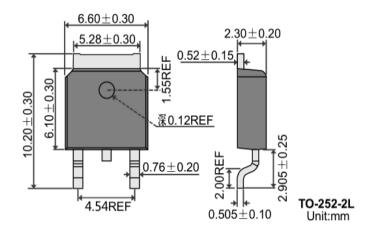
Weight: 0.3 grams (approx.)

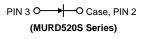
Mounting Position: Any

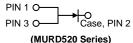
Marking: Device Code, See Page 3

Lead Free: For RoHS / Lead Free Version

DPAK/TO-252







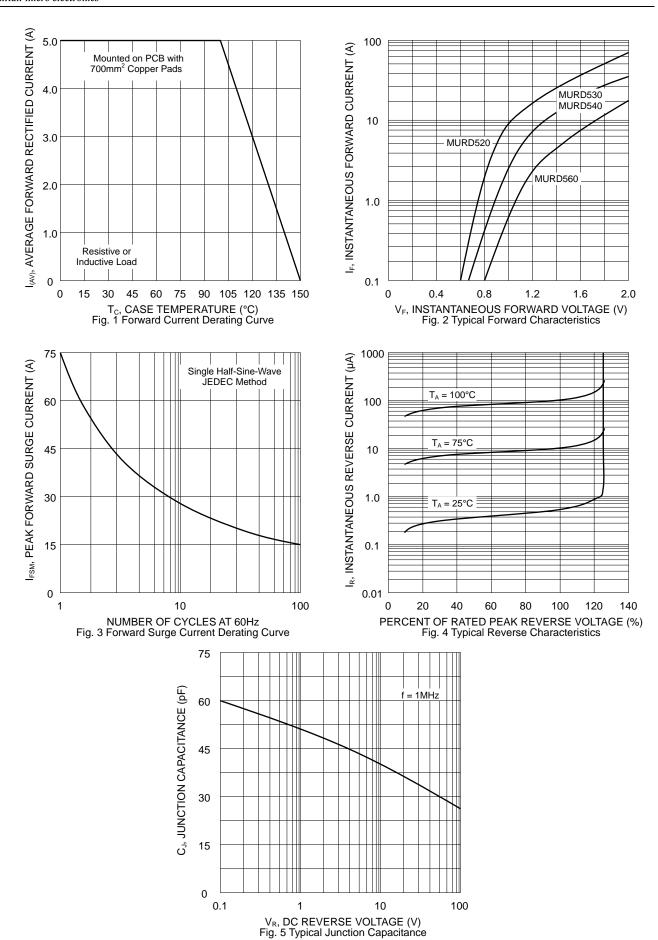
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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	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	5.0 500			μΑ	
Reverse Recovery Time (Note 1)		t _{rr}	35				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.

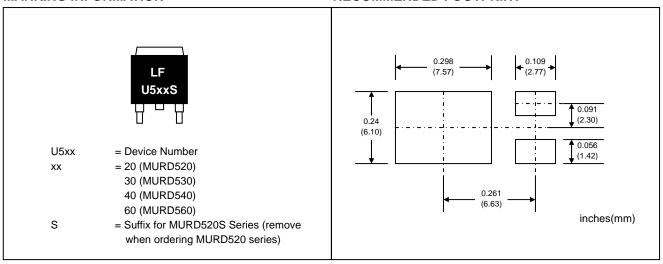
MURD520/S - MURD560/S

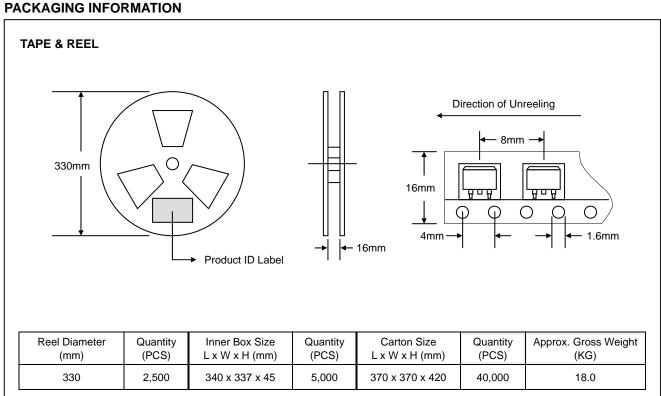




MARKING INFORMATION

RECOMMENDED FOOTPRINT





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

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