

1.0A SURFACE MOUNT GLASS PASSIVATED SUPERFAST DIODE

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MURS160

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Features

- Very Low VF 1.25V Max. @1.0A
- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 30A Peak
- Low Power Loss
- Super-Fast Recovery Time
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

Mechanical Data

- Case: SMB/DO-214AA, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Device Code, See Page 3
- Weight: 0.093 grams (approx.)
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

SMB/DO-214AA			
Dim	Min	Max	
Α	3.30	3.94	
В	4.06	4.70	
С	1.91	2.11	
D	0.152	0.305	
ш	5.08	5.59	
F	2.13	2.44	
G	0.051	0.203	
Н	0.76	1.27	
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%.

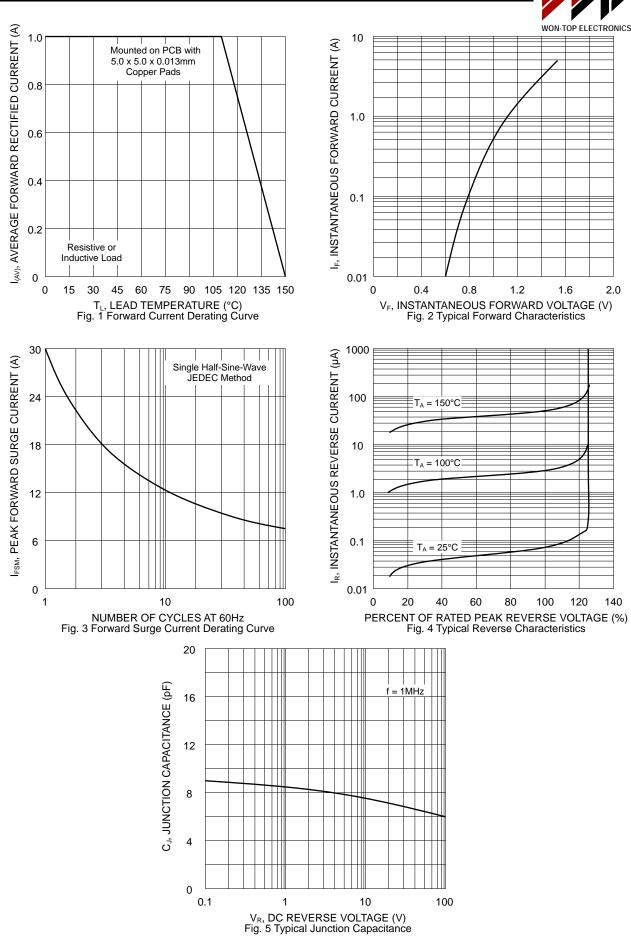
Characteristic	Symbol	MURS160	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	600	V
RMS Reverse Voltage	VR(RMS)	420	V
Average Rectified Output Current $@T_L = 110^{\circ}C$	lo	1.0	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	30	A
Forward Voltage $@I_F = 1.0A$	Vfm	1.25	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Irm	5.0 150	μΑ
Reverse Recovery Time (Note 1)	t _{rr}	50	nS
Typical Junction Capacitance (Note 2)	CJ	8	pF
Thermal Resistance Junction to Ambient (Note 3) Thermal Resistance Junction to Lead (Note 3)	R JA R JL	75 25	°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 5.0mm x 5.0mm x 0.013mm thick copper pads.

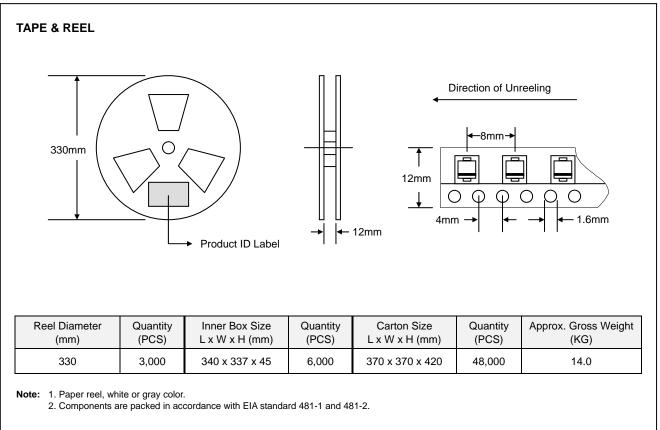
MURS160





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PACKAGING INFORMATION





ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
MURS160-T3	SMB	3000/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"

To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, MURS160-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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