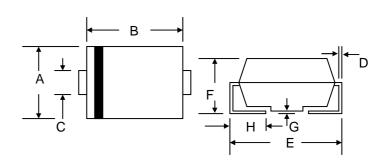




2.0A SURFACE MOUNT GLASS PASSIVATED FAST RECOVERY DIODE

Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Surge Overload Rating to 50A Peak
- Low Power Loss
- Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O



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: Type Number
- 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		
E	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

Characteristic		Symbol	FR2M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	1000	V
RMS Reverse Voltage		VR(RMS)	700	V
Average Rectified Output Current	@T _L = 90°C	lo	2.0	А
Non-Repetitive Peak Forward Surge 8.3ms Single half sine-wave superim rated load (JEDEC Method)		IFSM	50	А
Forward Voltage	@I _F = 2.0A	VFM	1.30	V
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 125°C	Irm	5.0 300	μА
Reverse Recovery Time (Note 1)		trr	500	nS
Typical Junction Capacitance (Note 2)	Cj	50	pF
Typical Thermal Resistance (Note 3)		R $ heta$ JL	20	°C/W
Operating and Storage Temperature I	Range	Тј, Тѕтс	-50 to +150	°C

Note: 1. Measured with I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A. See figure 5.

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
- 3. Mounted on P.C. Board with 8.0mm² land area.

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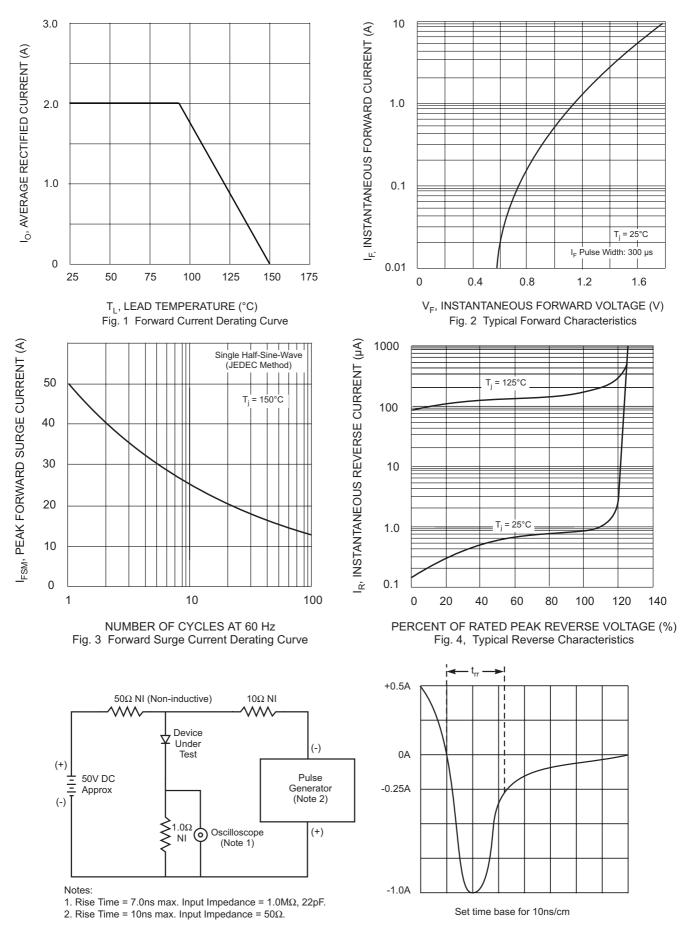
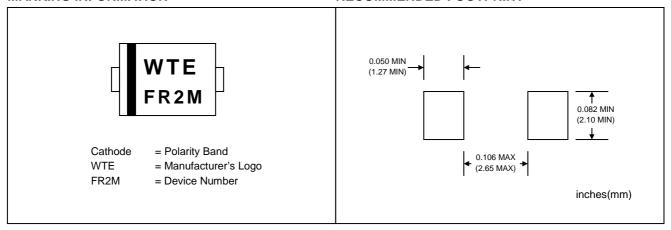
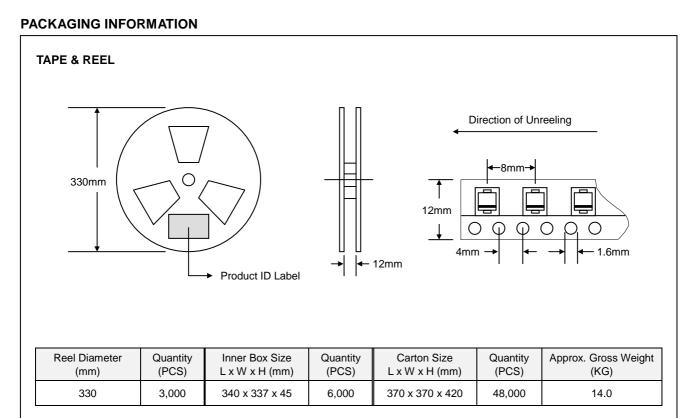


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

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.

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ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
FR2M-T3	SMB	3000/Tape & Reel

- 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" 2. suffix to part number above. For example, FR2M-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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