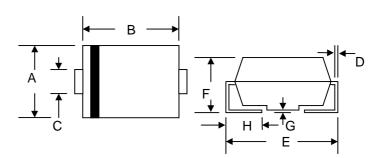




2.0A SURFACE MOUNT GLASS PASSIVATED FAST RECOVERY DIODE

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			
Е	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	FR2A	FR2B	FR2D	FR2G	FR2J	FR2K	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	200	400	600	800	V
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	>
Average Rectified Output Current @T _L = 90°C		lo	2.0					Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on 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			μΑ			
Reverse Recovery Time (Note 1)		trr	150 250 500			500	nS		
Typical Junction Capacitance (Note 2)		Cj	50					pF	
Typical Thermal Resistance (Note 3)		RθJL	20						°C/W
Operating and Storage Temperature Range		Тj, Tsтg	-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.

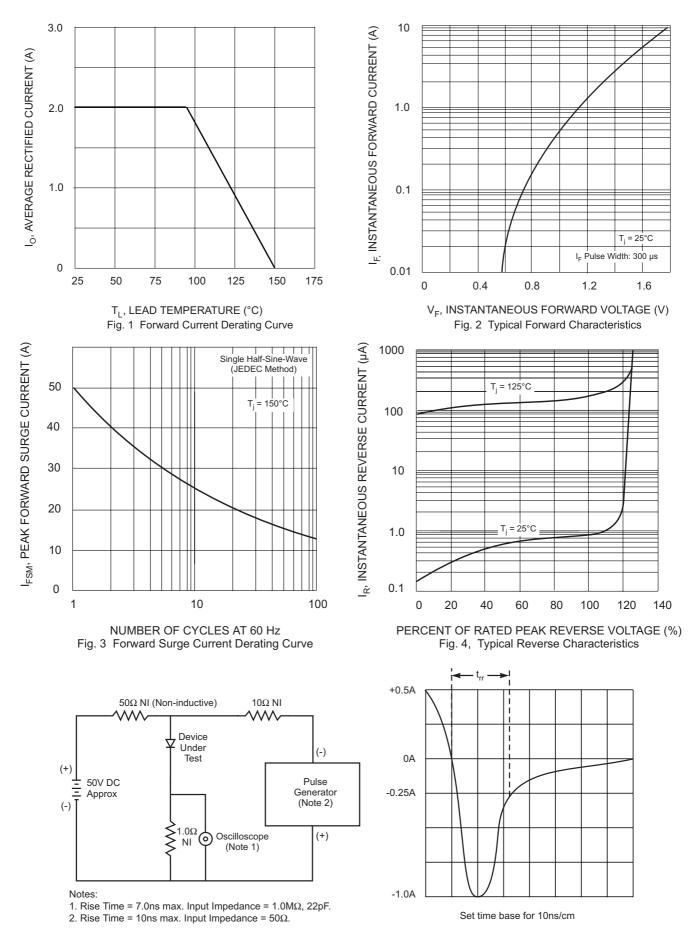
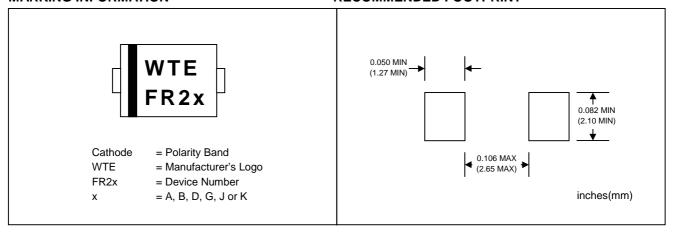


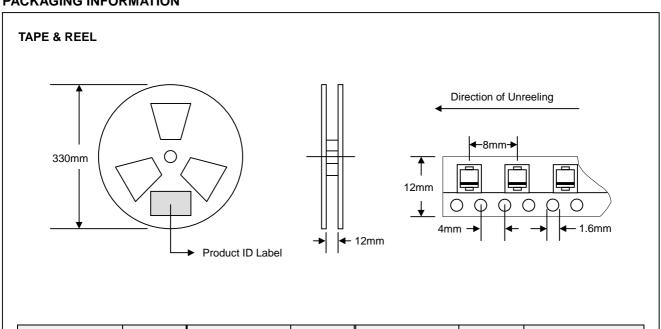
Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

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	3,000	340 x 337 x 45	6,000	370 x 370 x 420	48,000	14.0

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
FR2A-T3	SMB	3000/Tape & Reel
FR2B-T3	SMB	3000/Tape & Reel
FR2D-T3	SMB	3000/Tape & Reel
FR2G-T3	SMB	3000/Tape & Reel
FR2J-T3	SMB	3000/Tape & Reel
FR2K-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" suffix to part number above. For example, FR2A-T3-LF.

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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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