

3.0A FAST RECOVERY DIODE

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

Case: DO-201AD, Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

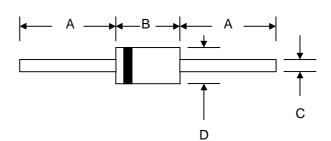
Polarity: Cathode Band

Weight: 1.2 grams (approx.)

Mounting Position: Any

Marking: Type NumberLead Free: For RoHS / Lead Free Version,

Add "-LF" Suffix to Part Number, See Page 4



DO-201AD					
Dim	Min	Max			
Α	25.4	_			
В	7.20	9.50			
С	1.20	1.30			
D	4.80	5.30			
All Dimensions in mm					

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

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	FR301	FR302	FR303	FR304	FR305	FR306	FR307	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @T _A = 55°C	lo				3.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	150				А			
Forward Voltage @I _F = 3.0A	VFM	1.2					٧		
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	IRM	10 150				μΑ			
Reverse Recovery Time (Note 2)	trr		1	50		250	50	00	nS
Typical Junction Capacitance (Note 3)	Cj	60			pF				
Operating Temperature Range	Tj	-65 to +125			°C				
Storage Temperature Range	Тѕтс	-65 to +150				°C			

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

- 2. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

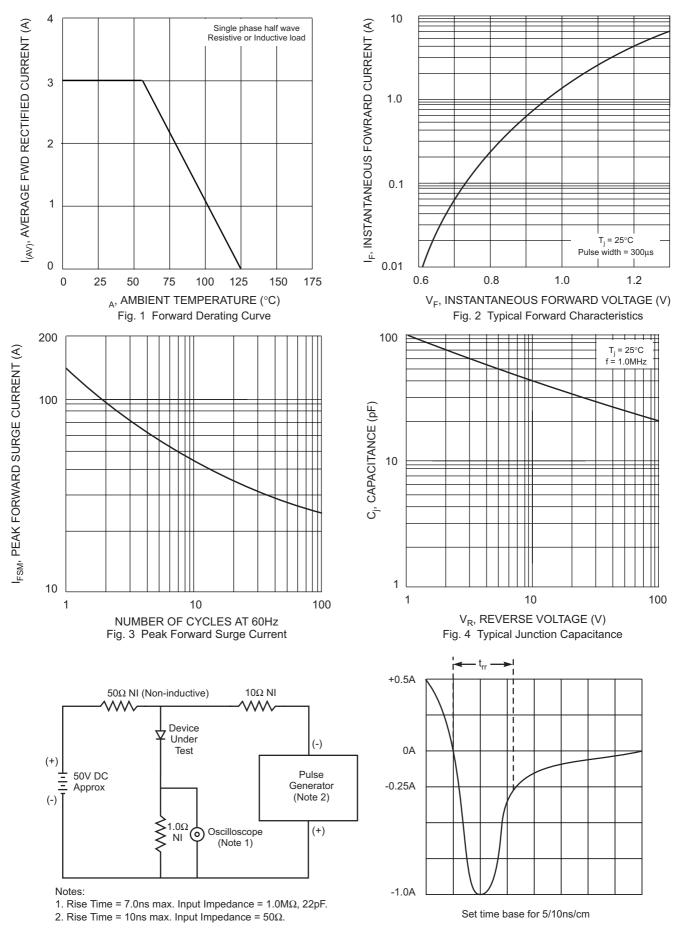
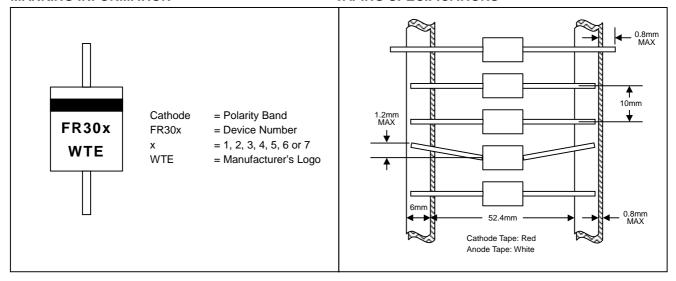


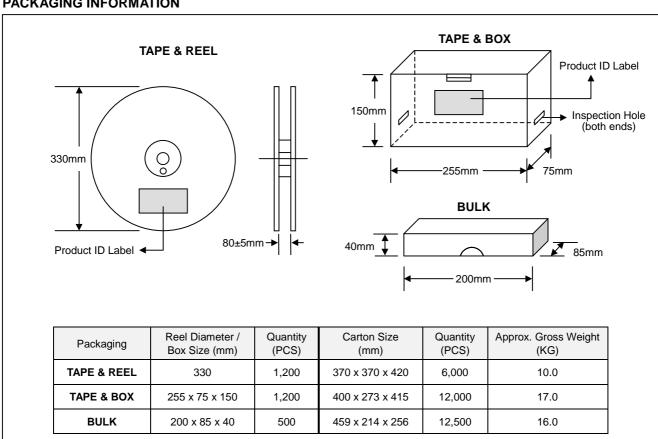
Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

MARKING INFORMATION

TAPING SPECIFICATIONS



PACKAGING INFORMATION



Note: 1. Paper reel, white or gray color. Core material: plastic or metal.

2. Components are packed in accordance with $\dot{\text{EIA}}$ standard RS-296-E.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity			
FR301-T3	DO-201AD	1200/Tape & Reel			
FR301-TB	DO-201AD	1200/Tape & Box			
FR301	DO-201AD	500 Units/Box			
FR302-T3	DO-201AD	1200/Tape & Reel			
FR302-TB	DO-201AD	1200/Tape & Box			
FR302	DO-201AD	500 Units/Box			
FR303-T3	DO-201AD	1200/Tape & Reel			
FR303-TB	DO-201AD	1200/Tape & Box			
FR303	DO-201AD	500 Units/Box			
FR304-T3	DO-201AD	1200/Tape & Reel			
FR304-TB	DO-201AD	1200/Tape & Box			
FR304	DO-201AD	500 Units/Box			
FR305-T3	DO-201AD	1200/Tape & Reel			
FR305-TB	DO-201AD	1200/Tape & Box			
FR305	DO-201AD	500 Units/Box			
FR306-T3	DO-201AD	1200/Tape & Reel			
FR306-TB	DO-201AD	1200/Tape & Box			
FR306	DO-201AD	500 Units/Box			
FR307-T3	DO-201AD	1200/Tape & Reel			
FR307-TB	DO-201AD	1200/Tape & Box			
FR307	DO-201AD	500 Units/Box			

- 1. Products listed in **bold** are WTE **Preferred** devices.
- 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, FR301-TB-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.

Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

Phone: 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

We power your everyday.