



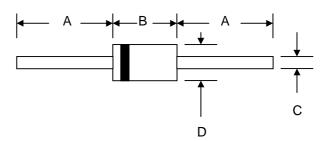
1.0A FAST RECOVERY DIODE

Features

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

Mechanical Data

- Case: DO-41, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.34 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



DO-41					
Dim	Min	Max			
Α	25.4	—			
В	4.06	5.21			
С	0.71	0.864			
D	2.00	2.72			
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	FR101	FR102	FR103	FR104	FR105	FR106	FR107	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) $@T_A = 55^{\circ}C$	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	1.2				V			
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Irm	5.0 100				μA			
Reverse Recovery Time (Note 2)	trr		1:	50		250	50	00	nS
Typical Junction Capacitance (Note 3)	Cj	15			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.

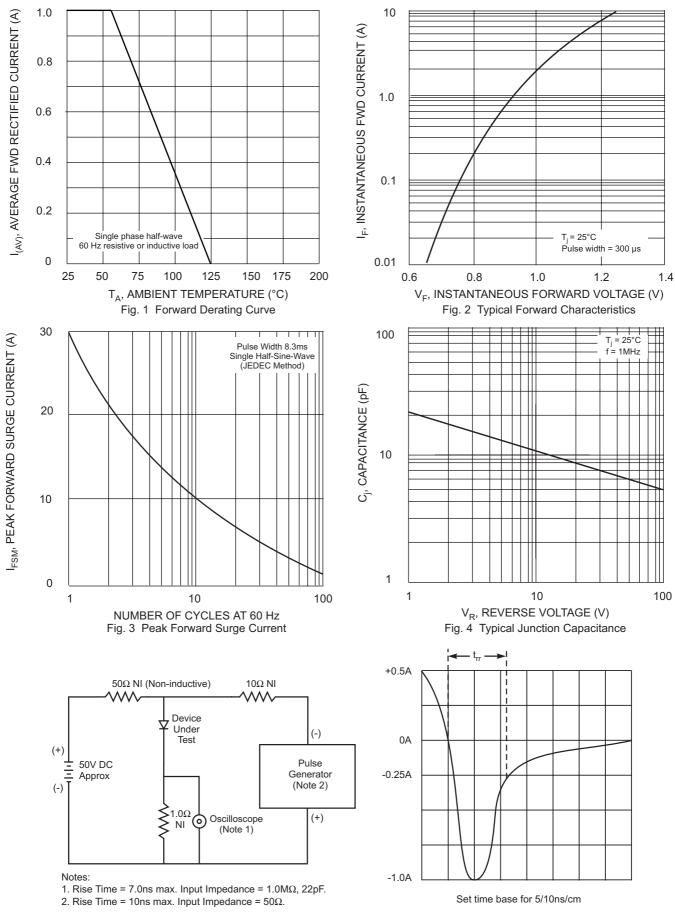
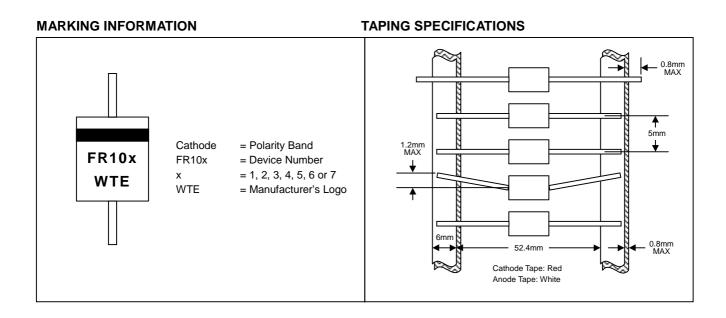
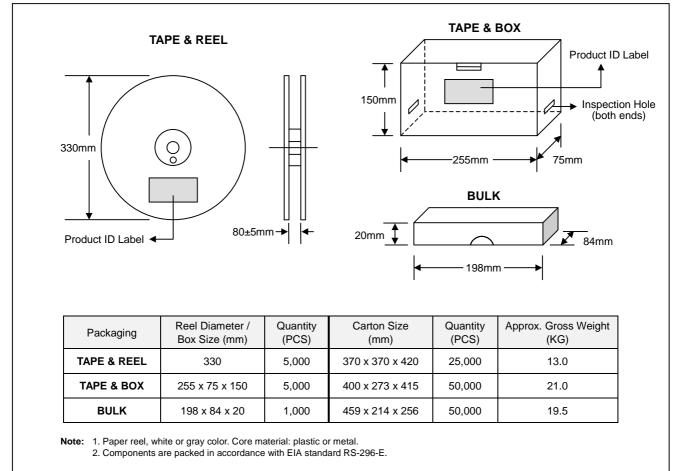


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit



PACKAGING INFORMATION



Product No.	Package Type	Shipping Quantity			
FR101-T3	DO-41	5000/Tape & Reel			
FR101-TB	DO-41	5000/Tape & Box			
FR101	DO-41	1000 Units/Box			
FR102-T3	DO-41	5000/Tape & Reel			
FR102-TB	DO-41	5000/Tape & Box			
FR102	DO-41	1000 Units/Box			
FR103-T3	DO-41	5000/Tape & Reel			
FR103-TB	DO-41	5000/Tape & Box			
FR103	DO-41	1000 Units/Box			
FR104-T3	DO-41	5000/Tape & Reel			
FR104-TB	DO-41	5000/Tape & Box			
FR104	DO-41	1000 Units/Box			
FR105-T3	DO-41	5000/Tape & Reel			
FR105-TB	DO-41	5000/Tape & Box			
FR105	DO-41	1000 Units/Box			
FR106-T3	DO-41	5000/Tape & Reel			
FR106-TB	DO-41	5000/Tape & Box			
FR106	DO-41	1000 Units/Box			
FR107-T3	DO-41	5000/Tape & Reel			
FR107-TB	DO-41	5000/Tape & Box			
FR107	DO-41	1000 Units/Box			

ORDERING INFORMATION

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.

3. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, FR101-TB-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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