

FR101 – FR107

1.0A FAST RECOVERY DIODE

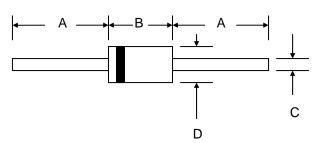


Features

- 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: 0.35 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%.

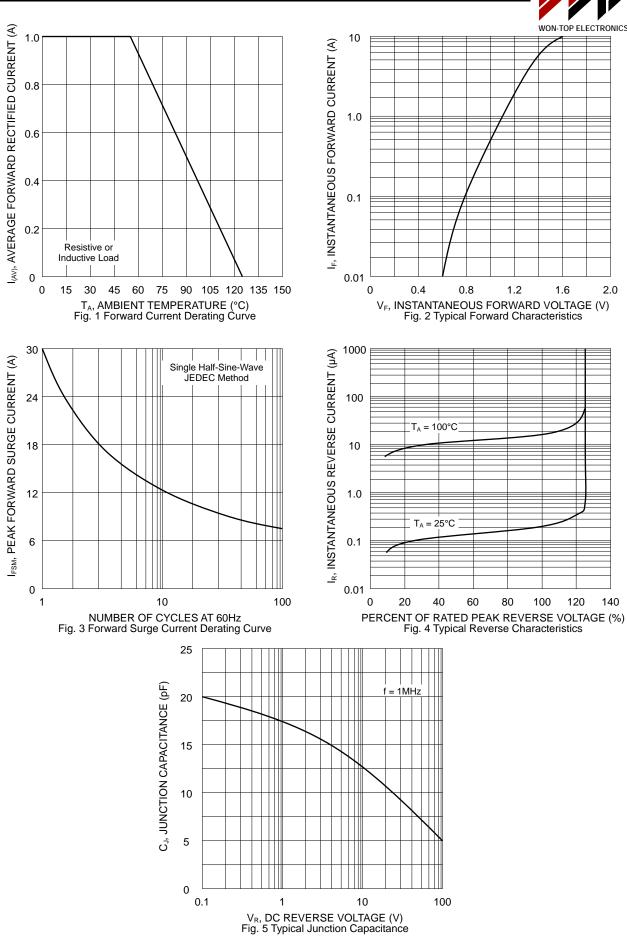
Characteristic	Symbol	FR101	FR102	FR103	FR104	FR105	FR106	FR107	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) $@T_A = 55^{\circ}C$	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 $@T_A = 100^{\circ}C$	Iгм	5.0 100					μA		
Reverse Recovery Time (Note 2)	t _{rr}		1:	50		250	50	00	nS
Typical Junction Capacitance (Note 3)	Сл	15					pF		
Typical Thermal Resistance Junction to Ambient (Note 1) Typical Thermal Resistance Junction to Lead (Note 1)		55 25						°C/W	
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 I_{F} = 0.5A, I_{R} = 1.0A, I_{RR} = 0.25A.

3. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.

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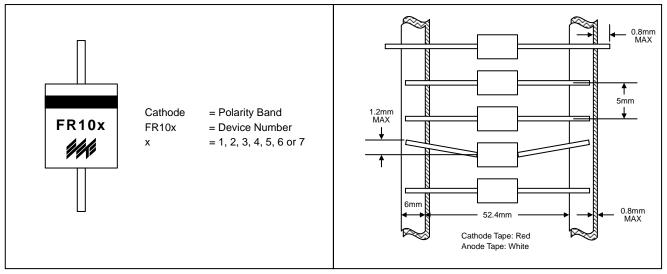


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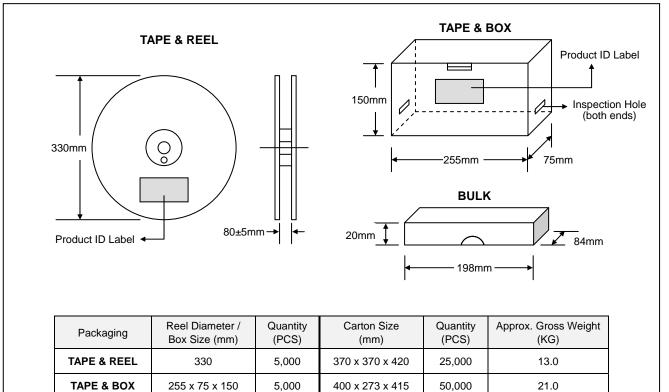


MARKING INFORMATION



TAPING SPECIFICATIONS

PACKAGING INFORMATION



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

198 x 84 x 20

2. Components are packed in accordance with EIA standard RS-296-E.

BULK

459 x 214 x 256

50,000

19.5

1,000



Product No.	Package Type	Shipping Quantity
FR10x-T3	DO-41	5000/Tape & Reel
FR10x-TB	DO-41	5000/Tape & Box
FR10x	DO-41	1000 Units/Box

ORDERING INFORMATION

1. Products listed in **bold** are WTE **Preferred** devices. 2.

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, FR101-TB-LF. 3.

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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.

Won-Top Electronics Co., Ltd.

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