



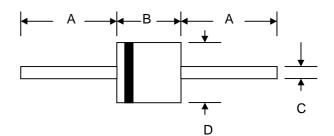
6.0A FAST RECOVERY DIODE

Features

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

Mechanical Data

- Case: R-6, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 2.1 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



R-6					
Dim	Min	Max			
Α	25.4	_			
В	8.60	9.10			
С	1.20	1.30			
D	8.60	9.10			
All Dimensions in mm					

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

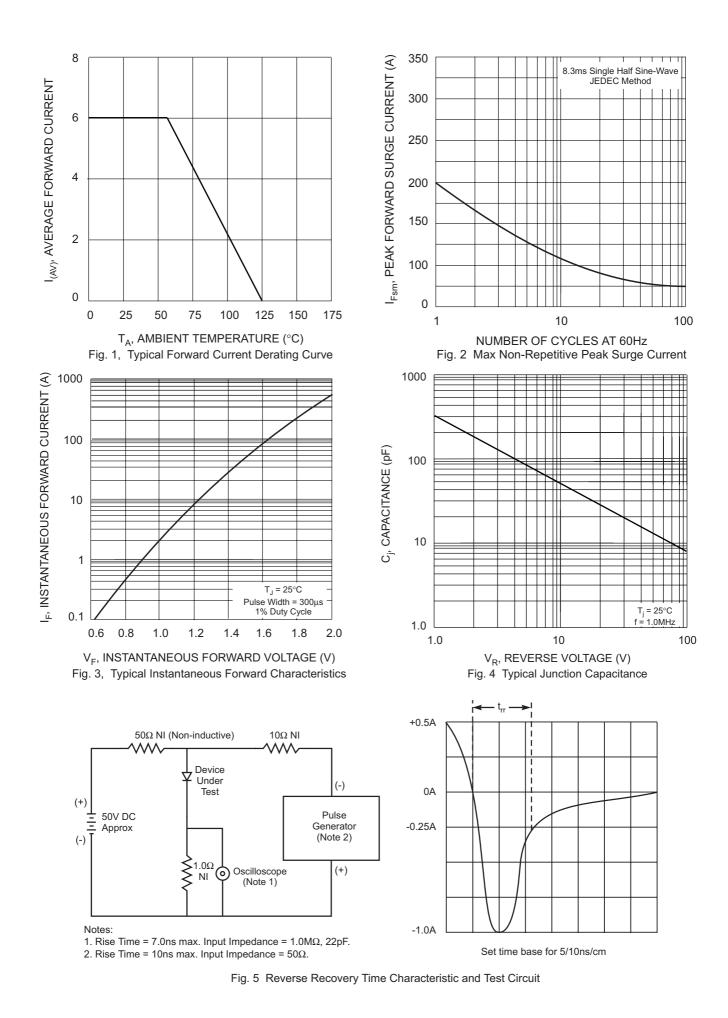
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

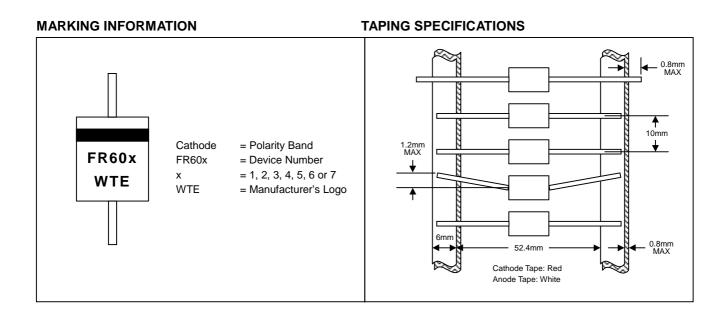
Characteristic	Symbol	FR601	FR602	FR603	FR604	FR605	FR606	FR607	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) $@T_A = 55^{\circ}C$	lo	6.0				А			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200				A			
Forward Voltage $@I_F = 6.0A$	VFM	1.2				V			
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Irm	10 200				μA			
Reverse Recovery Time (Note 2)	trr		1	50		250	50	00	nS
Typical Junction Capacitance (Note 3)	Cj	100			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

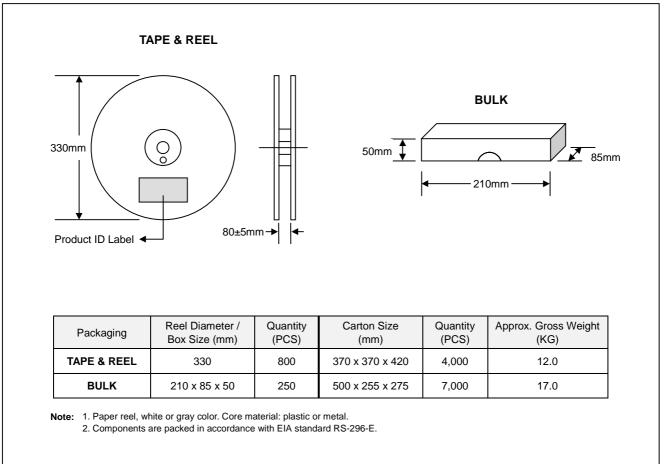
2. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.

3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.





PACKAGING INFORMATION



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity			
FR601-T3	R-6	800/Tape & Reel			
FR601	R-6	250 Units/Box			
FR602-T3	R-6	800/Tape & Reel			
FR602	R-6	250 Units/Box			
FR603-T3	R-6	800/Tape & Reel			
FR603	R-6	250 Units/Box			
FR604-T3	R-6	800/Tape & Reel			
FR604	R-6	250 Units/Box			
FR605-T3	R-6	800/Tape & Reel			
FR605	R-6	250 Units/Box			
FR606-T3	R-6	800/Tape & Reel			
FR606	R-6	250 Units/Box			
FR607-T3	R-6	800/Tape & Reel			
FR607	R-6	250 Units/Box			

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.

3. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, FR601-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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