

FR601 - FR607

6.0A FAST RECOVERY RECTIFIER

Features

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

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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					

Mechanical Data

Case: 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

Epoxy: UL 94V-O rate flame retardant

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	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°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				А			
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				μΑ			
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			ç				
Storage Temperature Range	Тѕтс	-65 to +150			°C				

*Glass passivated forms are available upon request

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.

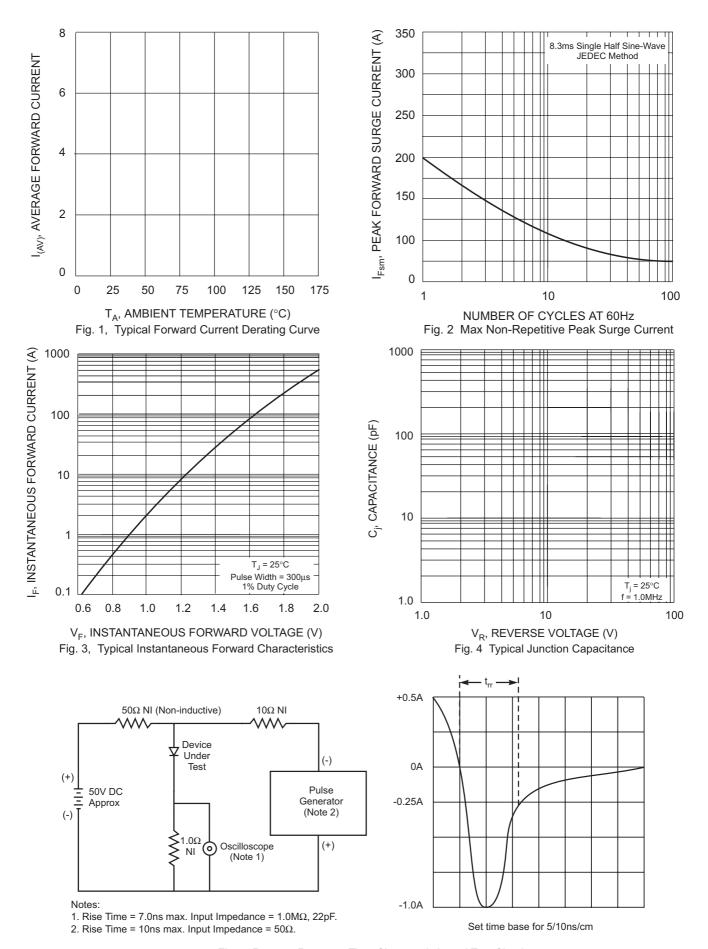


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

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			

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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.
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



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

T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.