

# FR201 - FR207

# 2.0A FAST RECOVERY RECTIFIER

## **Features**

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

### **Mechanical Data**

Case: Molded Plastic

Terminals: Plated Leads Solderable per

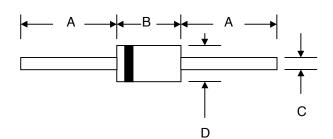
MIL-STD-202, Method 208

Polarity: Cathode Band

• Weight: 0.40 grams (approx.)

Mounting Position: Any

Marking: Type Number



DO-15					
Dim	Min	Max			
Α	25.4	_			
В	5.50	7.62			
С	0.71	0.864			
D	2.60	3.60			
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	FR201	FR202	FR203	FR204	FR205	FR206	FR207	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 <sub>A</sub> = 55°C	lo	2.0					А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	60				Α			
Forward Voltage @I <sub>F</sub> = 2.0A	<b>V</b> FM	1.2				V			
	IRM	5.0 100				μΑ			
Reverse Recovery Time (Note 2)	trr		15	50		250	50	00	nS
Typical Junction Capacitance (Note 3)	Cj	30			pF				
Operating Temperature Range	Tj	-65 to +125			°C				
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.

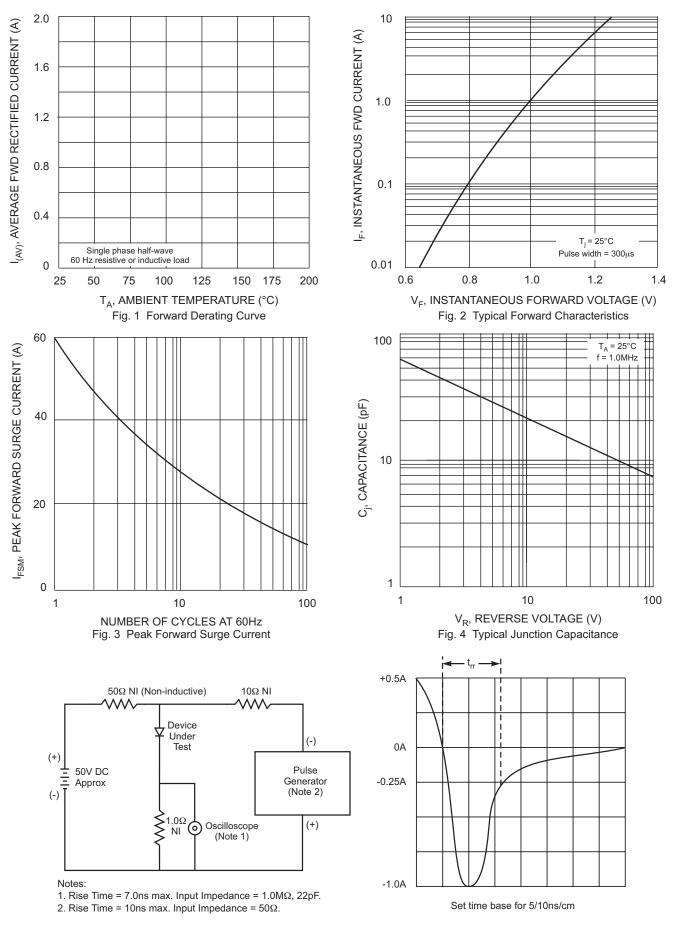


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

#### **ORDERING INFORMATION**

Product No.◆	Package Type	Shipping Quantity				
FR201-T3	DO-15	4000/Tape & Reel				
FR201-TB	DO-15	3000/Tape & Box				
FR201	DO-15	1000 Units/Box				
FR202-T3	DO-15	4000/Tape & Reel				
FR202-TB	DO-15	3000/Tape & Box				
FR202	DO-15	1000 Units/Box				
FR203-T3	DO-15	4000/Tape & Reel				
FR203-TB	DO-15	3000/Tape & Box				
FR203	DO-15	1000 Units/Box				
FR204-T3	DO-15	4000/Tape & Reel				
FR204-TB	DO-15	3000/Tape & Box				
FR204	DO-15	1000 Units/Box				
FR205-T3	DO-15	4000/Tape & Reel				
FR205-TB	DO-15	3000/Tape & Box				
FR205	DO-15	1000 Units/Box				
FR206-T3	DO-15	4000/Tape & Reel				
FR206-TB	DO-15	3000/Tape & Box				
FR206	DO-15	1000 Units/Box				
FR207-T3	DO-15	4000/Tape & Reel				
FR207-TB	DO-15	3000/Tape & Box				
FR207	DO-15	1000 Units/Box				

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

T3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack.

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

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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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