

## FR101 - FR107 FAST RECOVERY RECTIFIER DIODES

VOLTAGE RANGE: 50 - 1000V CURRENT: 1.0 A

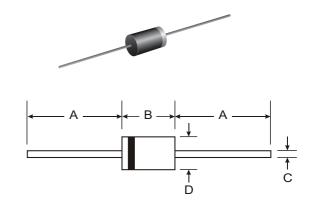
## **Features**

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

## **Mechanical Data**

- Case: D O 4 1 Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.34 grams (approx.)
- Mounting Position: AnyMarking: Type Number





DO-41								
Dim	Min	Max						
Α	25.40							
В	4.06	5.21						
С	0.71	0.864						
D	2.00	2.72						
All Dimensions in mm								

## Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 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 <sub>A</sub> = 55°C	lo	1.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30						Α	
Forward Voltage @I <sub>F</sub> = 1.0A	VFM	1.2							V
	IRM	5.0 100							μΑ
Reverse Recovery Time (Note 2)	trr	150 250 500				nS			
Typical Junction Capacitance (Note 3)	Cj	15					pF		
Operating Temperature Range	Tj	-65 to +125					°C		
Storage Temperature Range	Tstg	-65 to +150					°C		

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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.



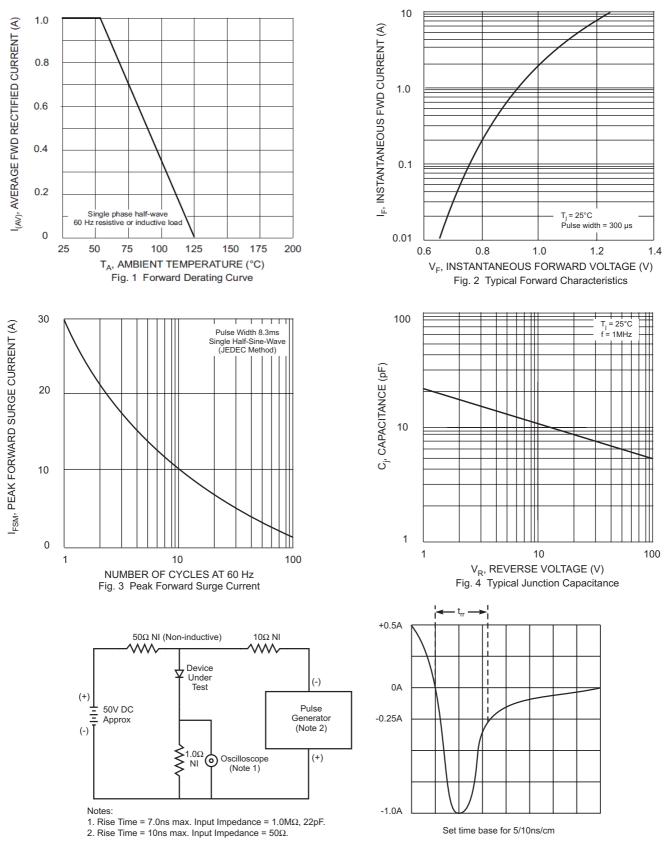


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit