

# SFR151 - SFR157

## 1.5A SOFT FAST RECOVERY RECTIFIER

### **Features**

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

#### **Mechanical Data**

Case: Molded Plastic

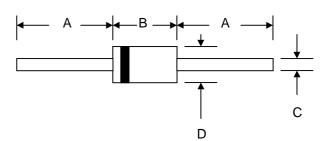
Terminals: Plated Leads Solderable per

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	SFR151	SFR152	SFR153	SFR154	SFR155	SFR156	SFR157	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	٧
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	1.5							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	50						А	
Forward Voltage @I <sub>F</sub> = 1.5A	VFM	1.2						V	
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	lгм	5.0 100							μΑ
Reverse Recovery Time (Note 2)	trr	120 200 350				50	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.

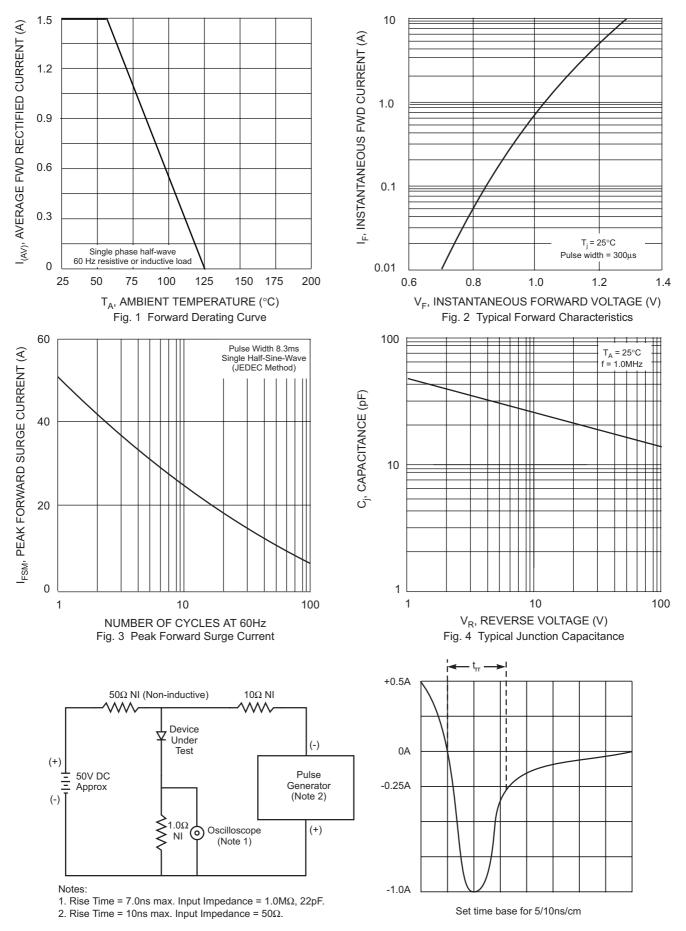


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit