

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

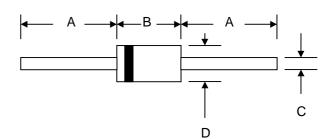
Terminals: Plated Leads Solderable per

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	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	1.5				А			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	50			А				
Forward Voltage @I _F = 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				μA			
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.

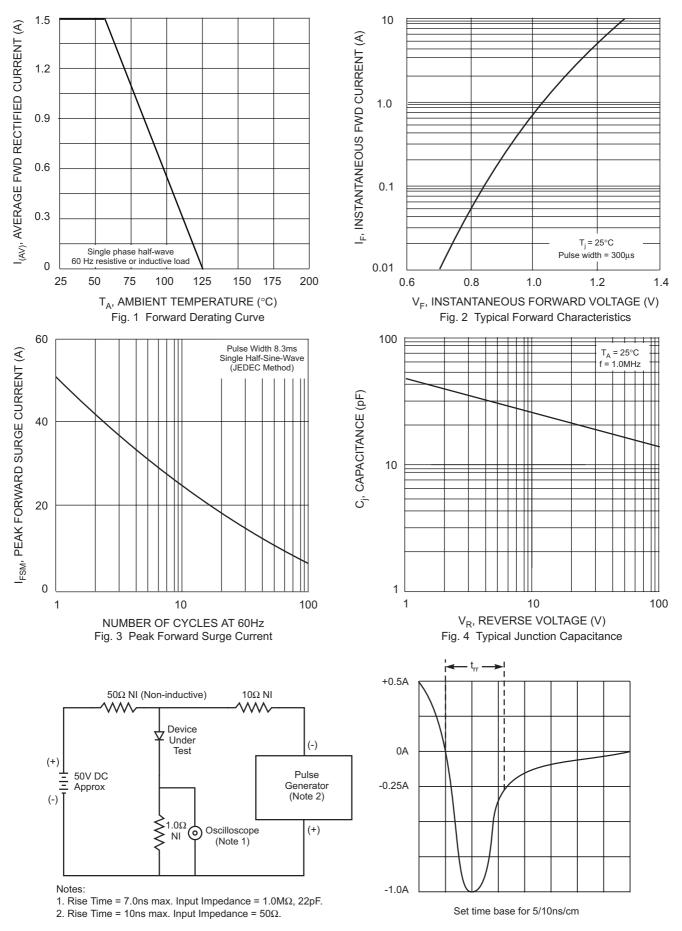


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity			
SFR151-T3	DO-15	4000/Tape & Reel			
SFR151-TB	DO-15	3000/Tape & Box			
SFR151	DO-15	1000 Units/Box			
SFR152-T3	DO-15	4000/Tape & Reel			
SFR152-TB	DO-15	3000/Tape & Box			
SFR152	DO-15	1000 Units/Box			
SFR153-T3	DO-15	4000/Tape & Reel			
SFR153-TB	DO-15	3000/Tape & Box			
SFR153	DO-15	1000 Units/Box			
SFR154-T3	DO-15	4000/Tape & Reel			
SFR154-TB	DO-15	3000/Tape & Box			
SFR154	DO-15	1000 Units/Box			
SFR155-T3	DO-15	4000/Tape & Reel			
SFR155-TB	DO-15	3000/Tape & Box			
SFR155	DO-15	1000 Units/Box			
SFR156-T3	DO-15	4000/Tape & Reel			
SFR156-TB	DO-15	3000/Tape & Box			
SFR156	DO-15	1000 Units/Box			
SFR157-T3	DO-15	4000/Tape & Reel			
SFR157-TB	DO-15	3000/Tape & Box			
SFR157	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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