

SF21 - SF27

2.0A SUPER-FAST RECTIFIER

Features

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

Mechanical Data

Case: Molded Plastic

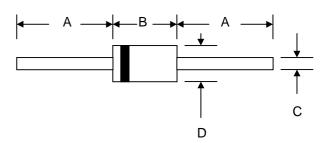
Terminals: Plated Leads Solderable per

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	SF21	SF22	SF23	SF24	SF25	SF26	SF27	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	150	200	300	400	600	V
RMS Reverse Voltage	VR(RMS)	35	70	105	140	210	280	420	V
Average Rectified Output Current (Note 1) @T _A = 55°C	lo	2.0				Α			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50				А			
Forward Voltage @I _F = 2.0A	VFM	0.95 1.3		.3	1.7	V			
	lгм	5.0 100					μΑ		
Reverse Recovery Time (Note 2)	trr				35				nS
Typical Junction Capacitance (Note 3)	Cj		6	60			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.

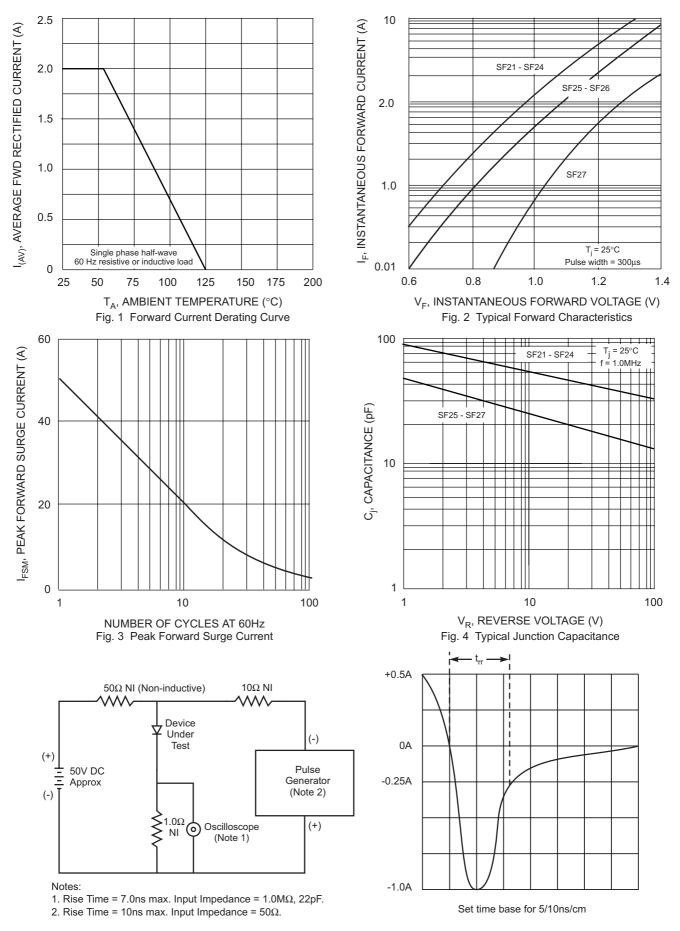


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity				
SF21-T3	DO-15	4000/Tape & Reel				
SF21-TB	DO-15	3000/Tape & Box				
SF21	DO-15	1000 Units/Box				
SF22-T3	DO-15	4000/Tape & Reel				
SF22-TB	DO-15	3000/Tape & Box				
SF22	DO-15	1000 Units/Box				
SF23-T3	DO-15	4000/Tape & Reel				
SF23-TB	DO-15	3000/Tape & Box				
SF23	DO-15	1000 Units/Box				
SF24-T3	DO-15	4000/Tape & Reel				
SF24-TB	DO-15	3000/Tape & Box				
SF24	DO-15	1000 Units/Box				
SF25-T3	DO-15	4000/Tape & Reel				
SF25-TB	DO-15	3000/Tape & Box				
SF25	DO-15	1000 Units/Box				
SF26-T3	DO-15	4000/Tape & Reel				
SF26-TB	DO-15	3000/Tape & Box				
SF26	DO-15	1000 Units/Box				
SF27-T3	DO-15	4000/Tape & Reel				
SF27-TB	DO-15	3000/Tape & Box				
SF27	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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We power your everyday.