

SFR601 - SFR607

6.0A 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: 2.1 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Epoxy: UL 94V-O rate flame retardant

R-6					
Dim	Min	Max			
Α	25.4	_			
В	8.60	9.10			
С	1.20	1.30			
D	8.60	9.10			
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	SFR601	SFR602	SFR603	SFR604	SFR605	SFR606	SFR607	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	6.0				Α			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200			А				
Forward Voltage @I _F = 6.0A	VFM	1.2				V			
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	lгм	10 200			μA				
Reverse Recovery Time (Note 2)	trr		1	20		200	3	50	nS
Typical Junction Capacitance (Note 3)	Cj	100			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.

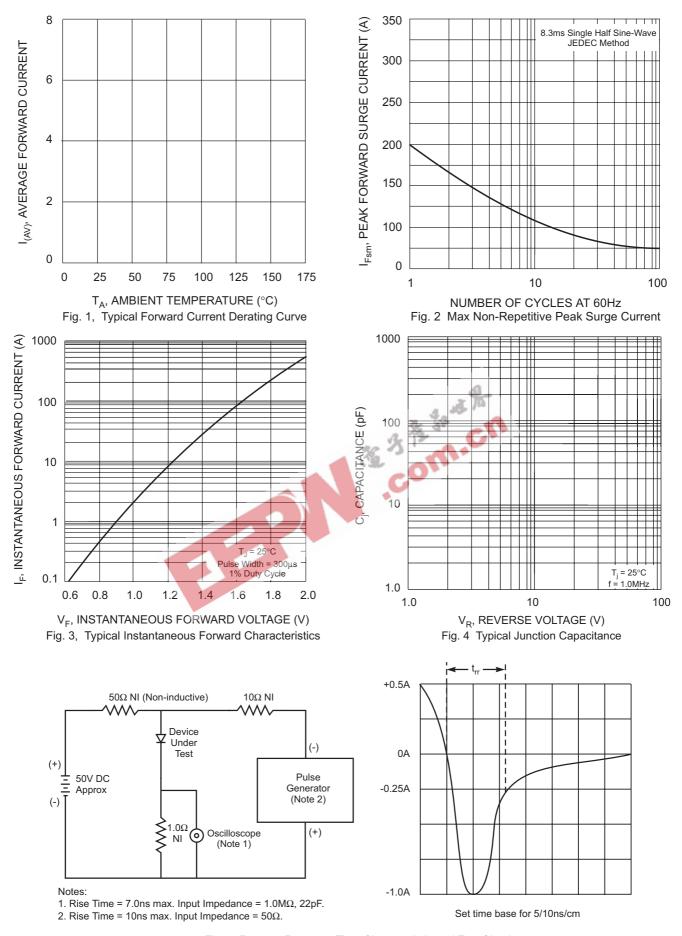


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity			
SFR601-T3	R-6	800/Tape & Reel			
SFR601	R-6	250 Units/Box			
SFR602-T3	R-6	800/Tape & Reel			
SFR602	R-6	250 Units/Box			
SFR603-T3	R-6	800/Tape & Reel			
SFR603	R-6	250 Units/Box			
SFR604-T3	R-6	800/Tape & Reel			
SFR604	R-6	250 Units/Box			
SFR605-T3	R-6	800/Tape & Reel			
SFR605	R-6	250 Units/Box			
SFR606-T3	R-6	800/Tape & Reel			
SFR606	R-6	250 Units/Box			
SFR607-T3	R-6	800/Tape & Reel			
SFR607	R-6	250 Units/Box			

Products listed in **bold** are WTE **Preferred** devices. *T3 suffix refers to a 13" reel.



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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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