

SFR601 – SFR607

6.0A SOFT FAST RECOVERY RECTIFIER

Features

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

$\begin{array}{c|c} & A & \longrightarrow & B & \longrightarrow & A & \longrightarrow \\ & & & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & \\ & & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ &$

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

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

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	٧
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)	İFSM	200					А		
Forward Voltage @I _F = 6.0A	VFM	1.2					V		
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	lгм	10 200					μΑ		
Reverse Recovery Time (Note 2)	trr	120 200 350		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.

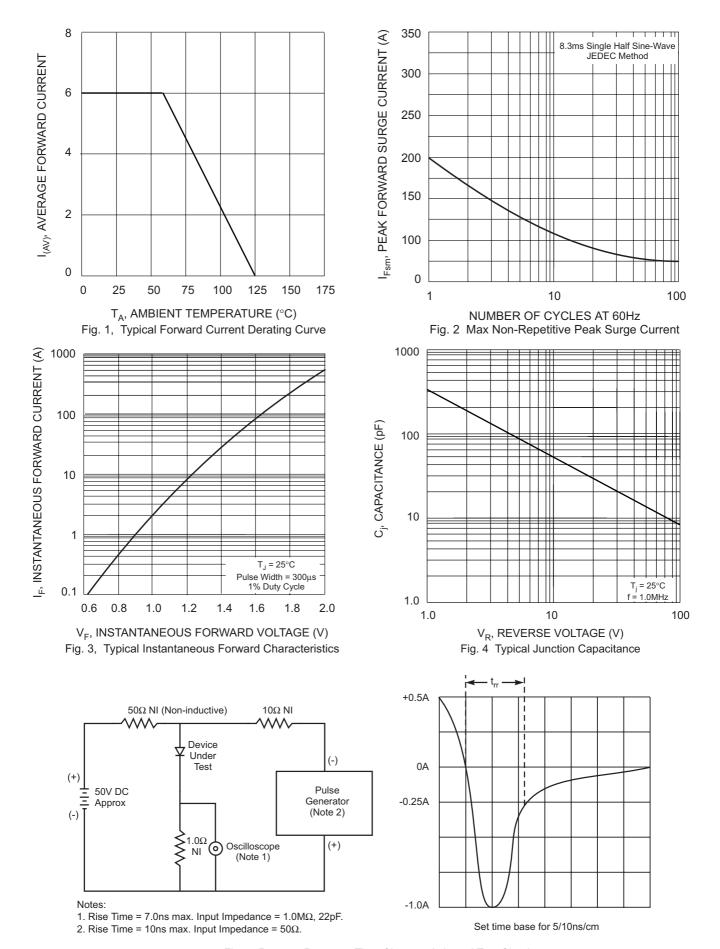


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

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		

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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.

Won-Top Electronics Co., Ltd.
No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

Phone: 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com



Products listed in **bold** are WTE **Preferred** devices.

T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.