

# SF11 - SF17

## **1.0A SUPER-FAST RECTIFIER**

### **Features**

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

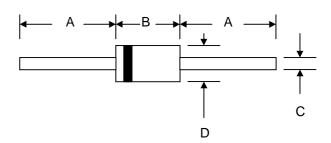
#### **Mechanical Data**

Case: Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode BandWeight: 0.34 grams (approx.)

Mounting Position: AnyMarking: Type Number



DO-41				
Dim	Min	Max		
Α	25.4	_		
В	4.06	5.21		
С	0.71	0.864		
D	2.00	2.72		
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	SF11	SF12	SF13	SF14	SF15	SF16	SF17	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	٧
Average Rectified Output Current (Note 1)	@T <sub>A</sub> = 55°C	lo	1.0					Α		
Non-Repetitive Peak Forward Surge Single half sine-wave superimposed (JEDEC Method)		İFSM	30				А			
Forward Voltage	@I <sub>F</sub> = 1.0A	VFM	0.95 1.3 1.			1.7	V			
Peak Reverse Current At Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C @T <sub>A</sub> = 100°C	IRM	5.0 100				μΑ			
Reverse Recovery Time (Note 2)		trr				35				nS
Typical Junction Capacitance (Note	3)	Cj		5	50			25		pF
Operating Temperature Range		Tj			-	65 to +12	25			°C
Storage Temperature Range		Тѕтс			-1	65 to +15	50			°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.

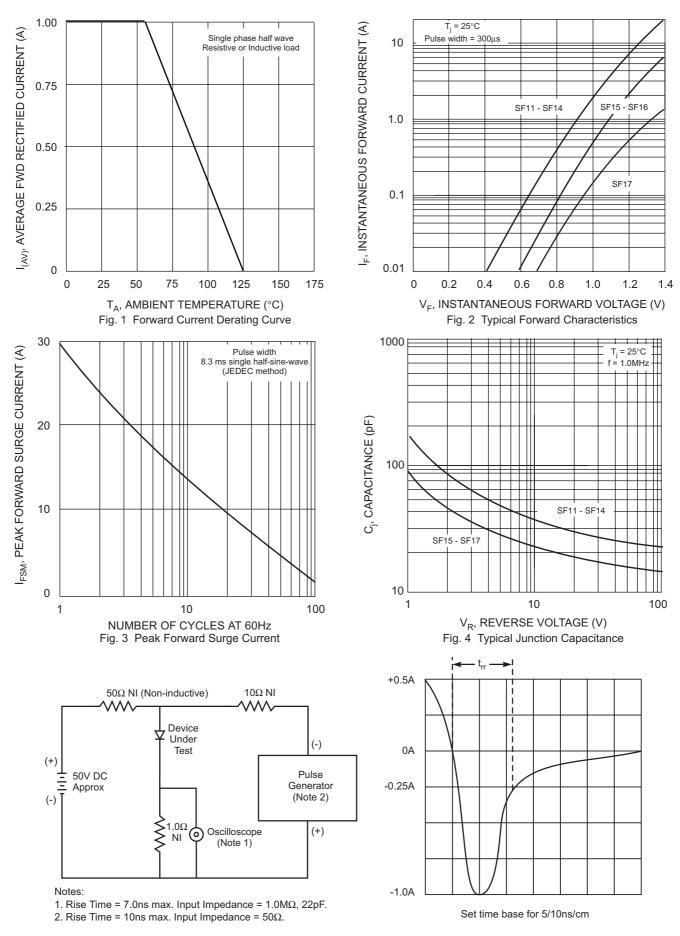


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

#### **ORDERING INFORMATION**

Product No.◆	Package Type	Shipping Quantity			
SF11-T3	DO-41	5000/Tape & Reel			
SF11-TB	DO-41	5000/Tape & Box			
SF11	DO-41	1000 Units/Box			
SF12-T3	DO-41	5000/Tape & Reel			
SF12-TB	DO-41	5000/Tape & Box			
SF12	DO-41	1000 Units/Box			
SF13-T3	DO-41	5000/Tape & Reel			
SF13-TB	DO-41	5000/Tape & Box			
SF13	DO-41	1000 Units/Box			
SF14-T3	DO-41	5000/Tape & Reel			
SF14-TB	DO-41	5000/Tape & Box			
SF14	DO-41	1000 Units/Box			
SF15-T3	DO-41	5000/Tape & Reel			
SF15-TB	DO-41	5000/Tape & Box			
SF15	DO-41	1000 Units/Box			
SF16-T3	DO-41	5000/Tape & Reel			
SF16-TB	DO-41	5000/Tape & Box			
SF16	DO-41	1000 Units/Box			
SF17-T3	DO-41	5000/Tape & Reel			
SF17-TB	DO-41	5000/Tape & Box			
SF17	DO-41	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.

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

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