

# SF1601G - SF1606G

## 16A SUPER-FAST GLASS PASSIVATED RECTIFIER

#### **Features**

- Glass Passivated Die Construction
- Super-Fast Switching for High Efficiency
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

### **Mechanical Data**

Case: Molded Plastic

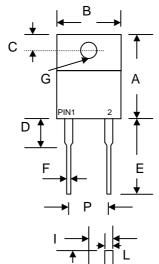
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

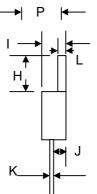
• Polarity: See Diagram

Weight: 2.24 grams (approx.)

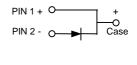
Mounting Position: Any

Marking: Type Number





TO-220A					
Dim	Min	Max			
Α	14.9	15.1			
В	_	10.5			
С	2.62	2.87			
D	3.56	4.06			
Е	13.46	14.22			
F	0.68	0.94			
G	3.74 Ø	3.91 Ø			
Н	5.84	6.86			
I	4.44	4.70			
J	2.54	2.79			
K	0.35	0.64			
L	1.14	1.40			
Р	4.95	5.20			
All Dimensions in mm					



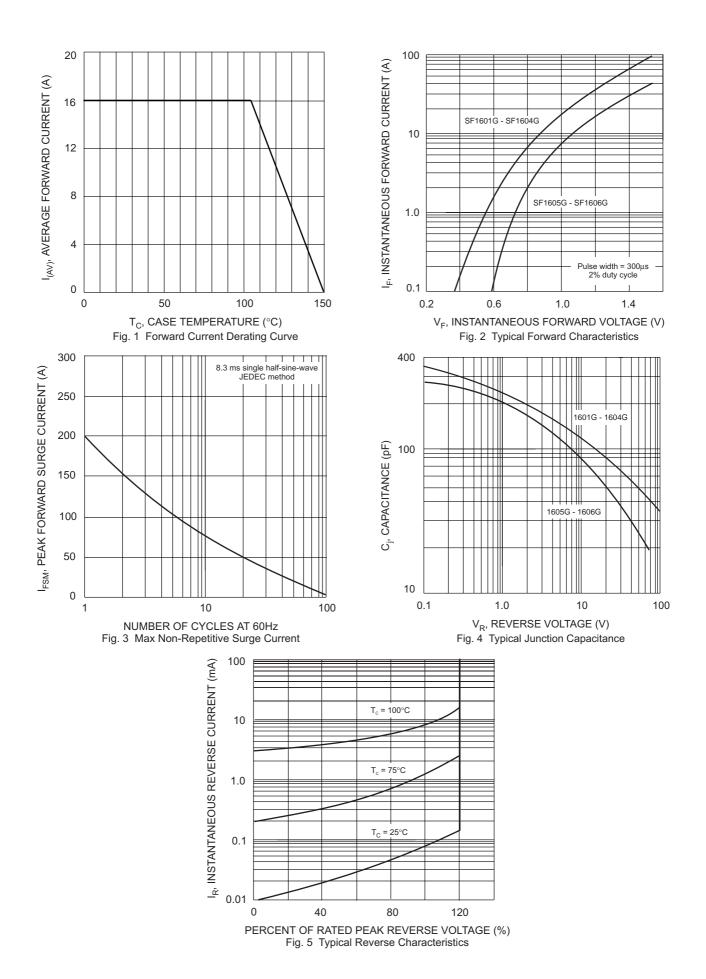
### Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SF1601G	SF1602G	SF1603G	SF1604G	SF1605G	SF1606G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	150	200	300	400	٧
RMS Reverse Voltage	VR(RMS)	35	70	105	140	210	280	V
Average Rectified Output Current @T <sub>C</sub> = 105°C	lo	16					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 <sub>F</sub> = 16A	VFM	0.975 1.3				.3	V	
	lгм	10 400				μΑ		
Reverse Recovery Time (Note 1)	trr	35					nS	
Typical Junction Capacitance (Note 2)	Cj	170 140				40	pF	
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150					°C	

Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
SF1601G	TO-220A	50 Units/Tube
SF1602G	TO-220A	50 Units/Tube
SF1603G	TO-220A	50 Units/Tube
SF1604G	TO-220A	50 Units/Tube
SF1605G	TO-220A	50 Units/Tube
SF1606G	TO-220A	50 Units/Tube

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

