

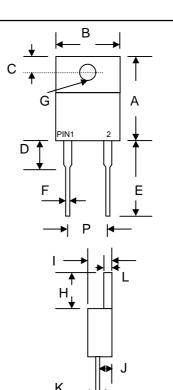
16A SUPER-FAST GLASS PASSIVATED RECTIFIER

Features

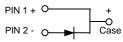
- Glass Passivated Die Construction
- Super-Fast Switching for High Efficiency
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

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			
К	0.35	0.64			
L	1.14	1.40			
Р	4.95	5.20			
All Dimensions in mm					



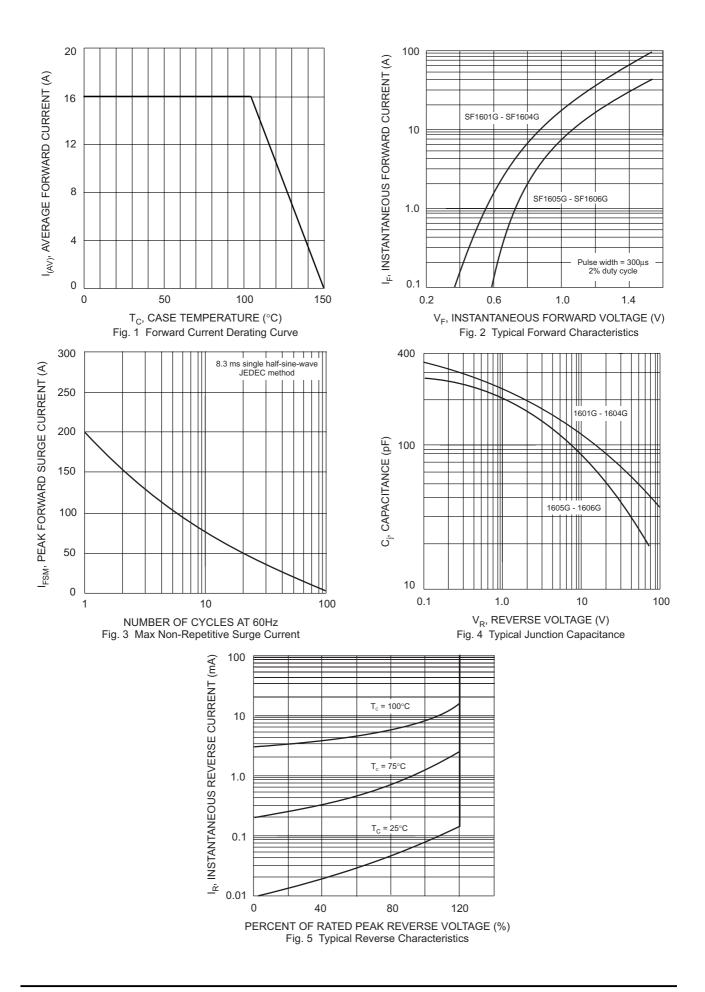
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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	V
RMS Reverse Voltage	VR(RMS)	35	70	105	140	210	280	V
Average Rectified Output Current @T _c = 105°C	lo	16						А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200					A	
Forward Voltage @I _F = 16A	VFM	0.975 1.3				.3	V	
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	10 400					μA	
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.



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.

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