

# **SF1601PT – SF1606PT**

## 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

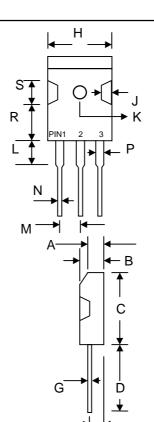
MIL-STD-750, Method 2026

Polarity: See Diagram

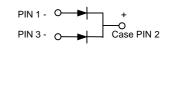
Weight: 5.6 grams (approx.)

Mounting Position: Any

Marking: Type Number



TO-3P						
Dim	Min	Max				
Α	3.20	3.50				
В	4.59	5.16				
С	20.80	21.30				
D	19.70	20.20				
Е	2.10	2.40				
G	0.51	0.76				
Н	15.90	16.40				
J	1.70	2.70				
K	3.10 Ø	3.30 Ø				
L	3.50	4.51				
М	5.20	5.70				
N	1.12	1.22				
Р	2.90	3.30				
R	11.70	12.80				
S	4.30 Typical					
All Dimensions in mm						



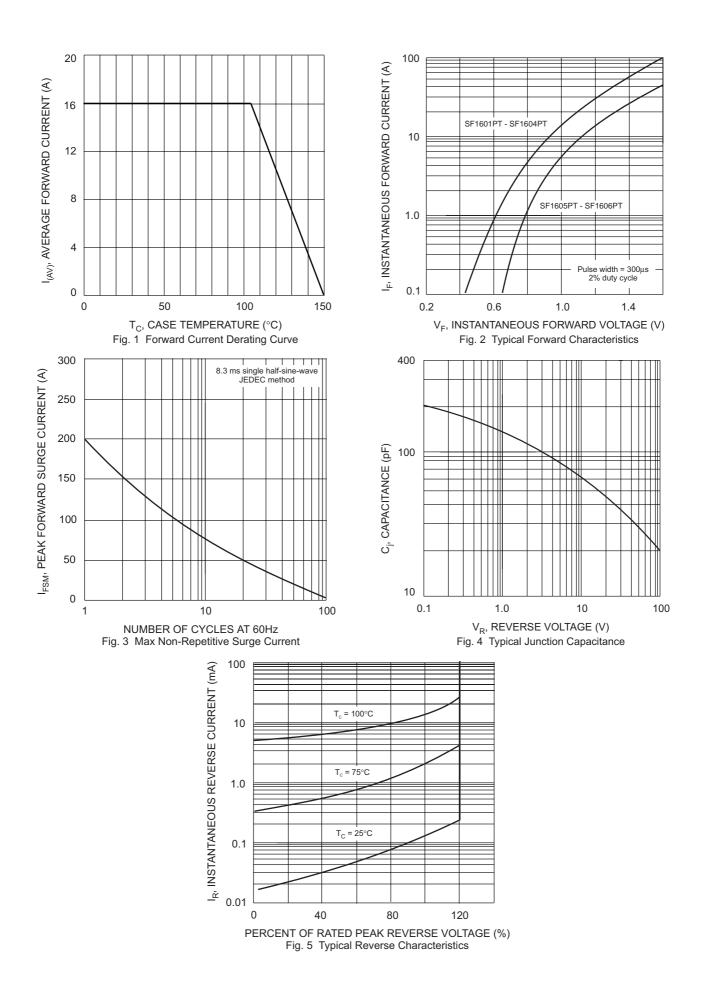
## Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Characteristic		Symbol	SF 1601PT	SF 1602PT	SF 1603PT	SF 1604PT	SF 1605PT	SF 1606PT	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	lo	16					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	200					Α	
Forward Voltage	$@I_F = 8.0A$	VFM	0.95 1.3				V		
Peak Reverse Current At Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C @T <sub>A</sub> = 100°C	lгм	10 500				μΑ		
Reverse Recovery Time (Note 1)		trr	35					nS	
Typical Junction Capacitance (Note 2)		Cj	85				pF		
Operating and Storage Temperature Range		Тј, Тѕтс	-55 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
SF1601PT	TO-3P	30 Units/Tube
SF1602PT	TO-3P	30 Units/Tube
SF1603PT	TO-3P	30 Units/Tube
SF1604PT	TO-3P	30 Units/Tube
SF1605PT	TO-3P	30 Units/Tube
SF1606PT	TO-3P	30 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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We power your everyday.