

SF1601PT – SF1606PT

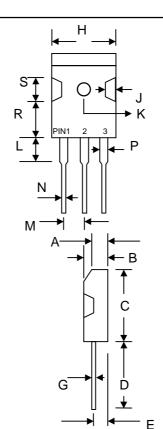
16A SUPER-FAST GLASS PASSIVATED RECTIFIER

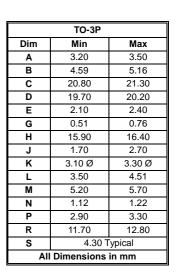
Features

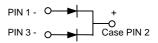
- Glass Passivated Die Construction
- Super-Fast Switching for High Efficiency
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

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







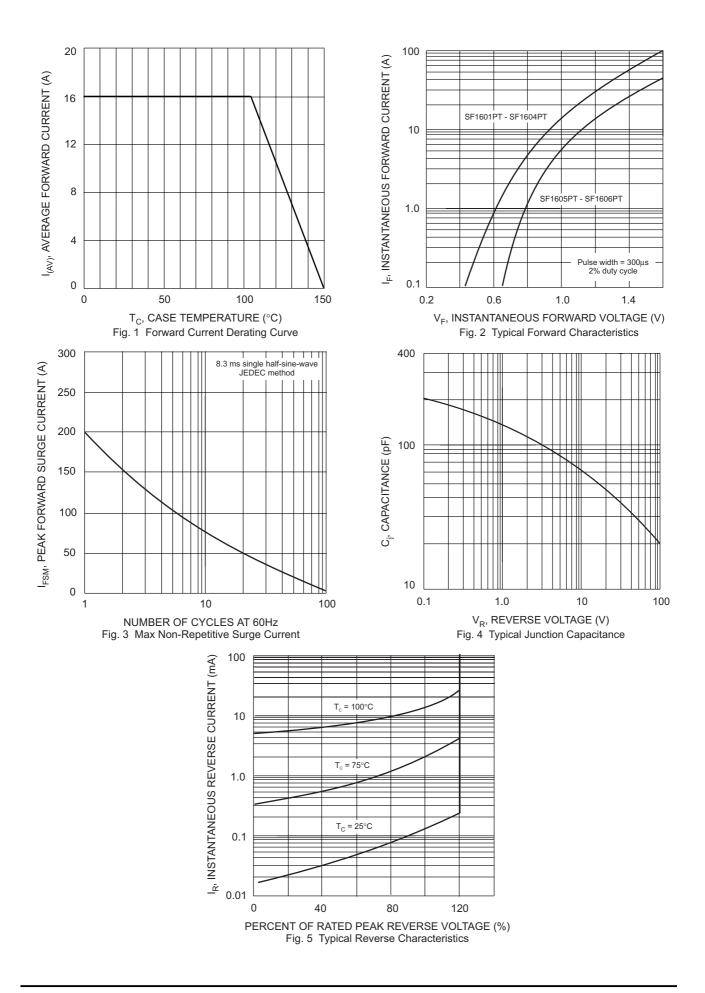
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

Characteristic	Symbol	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 $@T_c = 105^{\circ}C$	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 $@I_F = 8.0A$	VFM	0.95 1.3		.3	V			
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	10 500				μA		
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
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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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