

# SF3001PT - SF3006PT

## **30A 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

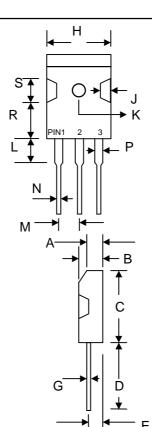
MIL-STD-750, Method 2026

Polarity: See Diagram

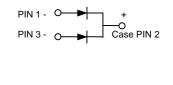
Weight: 5.6 grams (approx.)

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			
E	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					



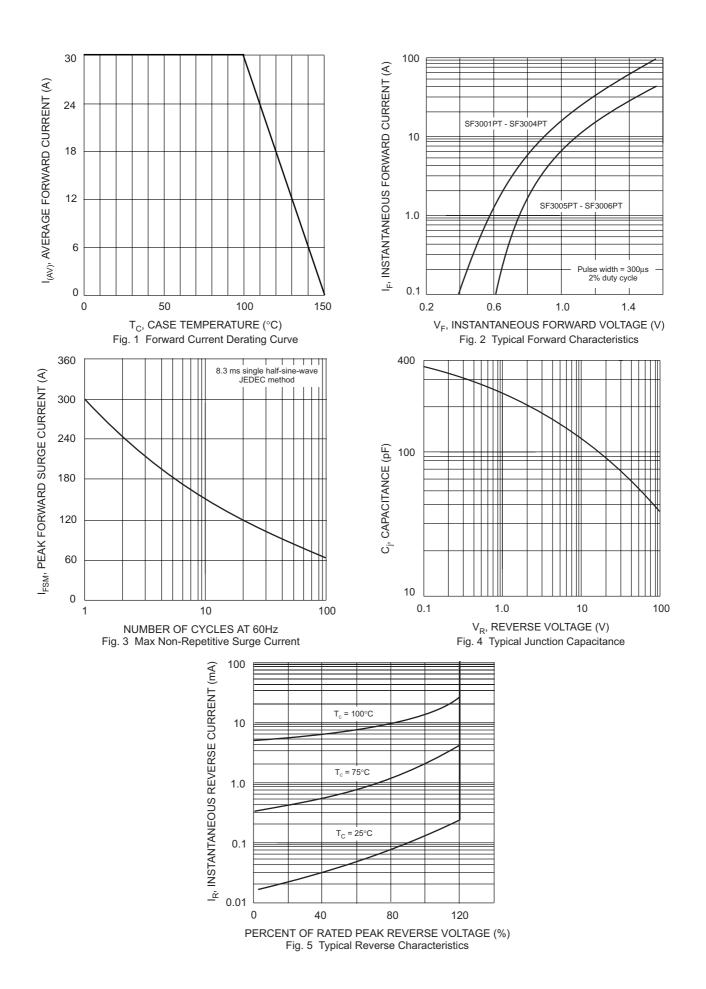
## Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Characteristic	Symbol	SF 3001PT	SF 3002PT	SF 3003PT	SF 3004PT	SF 3005PT	SF 3006PT	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 <sub>C</sub> = 100°	C lo	30					Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	300					А	
Forward Voltage @I <sub>F</sub> = 15A	VFM	0.95 1.3				.3	V	
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}$	I IDM	10 500				μΑ		
Reverse Recovery Time (Note 1)	trr	35					nS	
Typical Junction Capacitance (Note 2)	Cj	175					pF	
Operating and Storage Temperature Range	Tj, Tstg	-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
SF3001PT	TO-3P	30 Units/Tube
SF3002PT	TO-3P	30 Units/Tube
SF3003PT	TO-3P	30 Units/Tube
SF3004PT	TO-3P	30 Units/Tube
SF3005PT	TO-3P	30 Units/Tube
SF3006PT	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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