







Features

- ♦ Dual rectifier construction, positive center-tap
- Plastic package has Underwriters Laboratory Flammability Classifications 94V-0
- ♦ Glass passivated chip junctions
- ♦ Superfast recovery time, high voltage
- ♦ Low forward voltage, high current capability
- ♦ Low thermal resistance
- ♦ Low power loss, high efficiency
- High temperature soldering guaranteed: 260°C/10 seconds, 0.16",(4.06mm) lead lengths at 5 lbs., (2.3kg) tesion
- ♦ Green compound with suffix "G" on packing code & prefix "G" on datecode

Mechanical Data

- ♦ Case: JEDEC TO-3P/TO-247AD molded plastic
- Terminals: Pure tin plated, lead free, solderable per MIL-STD-705, Method 2026
- ♦ Polarity: As marked
- ♦ Mounting position: Any
- ♦ Weight: 5.6 grams

.245(6.2) .225(5.7) .840(21.3) .820(20.8) .17(4.3) .107 TYP BOTH SIDES .134(3.4) .114(2.9) .086(2.18) .076(1.93) .127(3.22) .117(2.97) .048(1.22) .048(1.22) .044(1.12)

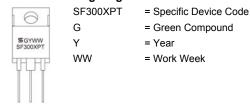
30.0AMPS. Glass Passivated Super Fast Rectifiers

TO-3P/TO-247AD

Dimensions in inches and (millimeters)

PIN 1

Marking Diagram



.030(.76)

Maximum Ratings and Electrical Characteristics

Type Number	Symbol	SF3008PT	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC Blocking Voltage	V _{DC}	600	V
Maximum Average Forward Rectified Current $@T_c$ =100 $^{\circ}$ C	I _{F(AV)}	30	А
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	300	А
Maximum Instantaneous Forward Voltage @ 15A	V _F	1.7	V
Maximum Reverse Current @ Rated VR T_A =25 $^{\circ}$ C (Note 1) T_A =125 $^{\circ}$ C	I _R	10 500	uA
Maximum Reverse Recovery Time (Note 2)	Trr	50	nS
Typical Junction Capacitance (Note 3)	Cj	175	pF
Typical Thermal Resistance (Note 4)	R _{ejC}	2.5	°C/W
Operating Temperature Range	T _J	- 55 to + 150	°С
Storage Temperature Range	T _{STG}	- 55 to + 150	οс

Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

Note 2: Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A

Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

Note 4: Mount on 4" x 6" x 0.25" Al-Plate



RATINGS AND CHARACTERISTIC CURVES (SF3008PT)

