



Features

- ♦ UL Recognized File # E-326243
- ♦ 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 efficency
- 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

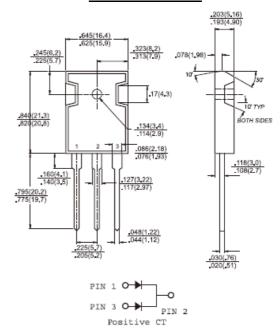
- ♦ Cases: JEDEC TO-3P/TO-247AD molded plastic
- ♦ Terminals: Pure tin plated, lead free, solderable per MIL-STD-750, Method 2026
- ♦ Polarity: As marked
- ♦ Mounting position: Any
- ♦ Weight: 5.6 grams

Maximum Ratings and Electrical Characteristics

Rating at 25 $^\circ\!C$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

SF1601PT - SF1608PT 16.0AMPS. Glass Passivated Super Fast Rectifiers

TO-3P/TO-247AD



Dimensions in inches and (millimeters)

	Marking I	Diagram
	SF16XXPT	= Specific Device Code
SF16XXPT	G	= Green Compound
	Y	= Year
	WW	= Work Week

Type Number		SF 1601	SF 1602	SF 1603	SF 1604	SF 1605	SF 1606	SF 1607	SF 1608	Units
		PT	PT	PT	PT	PT	PT	PT	PT	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	500	600	V
Maximum RMS Voltage		35	70	105	140	210	280	350	420	V
Maximum DC Blocking Voltage		50	100	150	200	300	400	500	600	V
Maximum Average Forward Rectified Current at $T_{\rm C}\text{=}100^\circ\!\!\mathbb{C}$		16								А
Peak Forward Surge Current, 8.3 ms Single Half Sine- wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150								А
Maximum Instantaneous Forward Voltage (Note 1) @8 A	V _F	0.95 1.3 1.7						.7	V	
Maximum DC Reverse Current@ T A=25 $^{\circ}$ Cat Rated DC Blocking Voltage@ T A=125 $^{\circ}$ C	I _R	10 500								uA uA
Maximum Reverse Recovery Time (Note 2)	Trr	35								nS
Typical Junction Capacitance (Note 3)	Cj	85								рF
Typical Thermal Resistance (Note 4)	$R_{\theta JC}$	2								^o C/W
Operating Junction Temperature Range	TJ	- 55 to + 150								°C
Storage Temperature Range	T _{STG}	- 55 to + 150								°C

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

Note 2: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

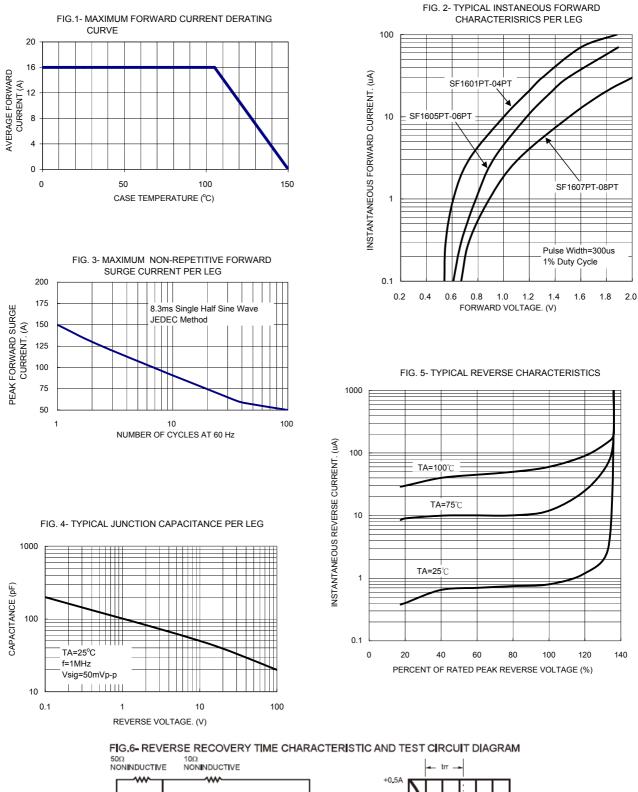
Note 3: Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A.

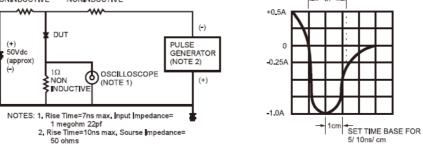
Note 4: Mounted on Heatsink size of 3" x 5" x 0.25" Al-Plate.

Version:C10



RATINGS AND CHARACTERISTIC CURVES (SF1601PT THRU SF1608PT)





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