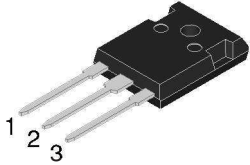
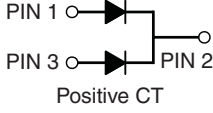


16.0 Amp. Glass Passivated Ultrafast Rectifiers

TO-3P/TO-247AD	Voltage 200 to 600 V	Current 16 A
	<ul style="list-style-type: none"> • 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, 4.06mm lead lengths at 5 lbs. (2.3Kg) tension 	
	<p>Mechanical Data</p> <ul style="list-style-type: none"> • 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: 0.2 ounce, 5.6 grams 	

Absolute Maximum Ratings, according to IEC publication No. 134

		SF 1604PT	SF 1606PT	SF 1608PT
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	200	400	600
V_{RMS}	Maximum RMS Voltage (V)	140	280	420
V_{DC}	Maximum DC Blocking Voltage (V)	200	400	600
$I_{F(AV)}$	Maximum Average Forward Rectified Current at $T_C = 100\text{ °C}$	16 A		
I_{FSM}	Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	150 A		
C_j	Typical Junction Capacitance at 1MHz and reverse voltage of $4V_{DC}$	85.0 pF		
T_{rr}	Maximum Reverse Recovery Time $I_F = 0.5\text{ A}$; $I_R = 1\text{ A}$; $I_{RR} = 0.25\text{ A}$ $T_j = 25\text{ °C}$	35 nS		
T_j-T_{stg}	Operating Junction Temperature and Storage Temperature	- 55 to + 150 °C		

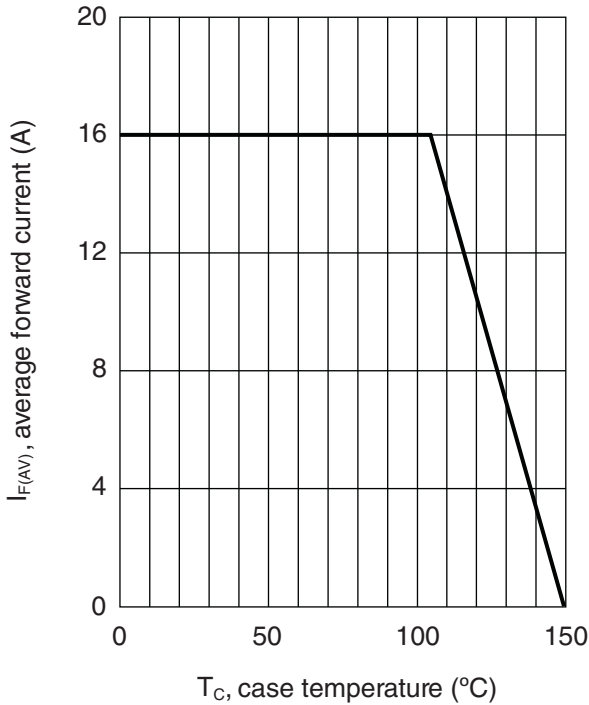
Electrical Characteristics

		SF 1604PT	SF 1606PT	SF 1608PT
V_F	Maximum Instantaneous Forward Voltage @ 8.0A	0.95 V	1.3 V	1.7 V
I_R	Maximum DC Reverse Current @ $T_C = 25\text{ °C}$ at Rated DC Blocking Voltage @ $T_C = 100\text{ °C}$	10 μA 500 μA		
R_{thj-c}	Typical Thermal Resistance (See Note)	2 °C/W		

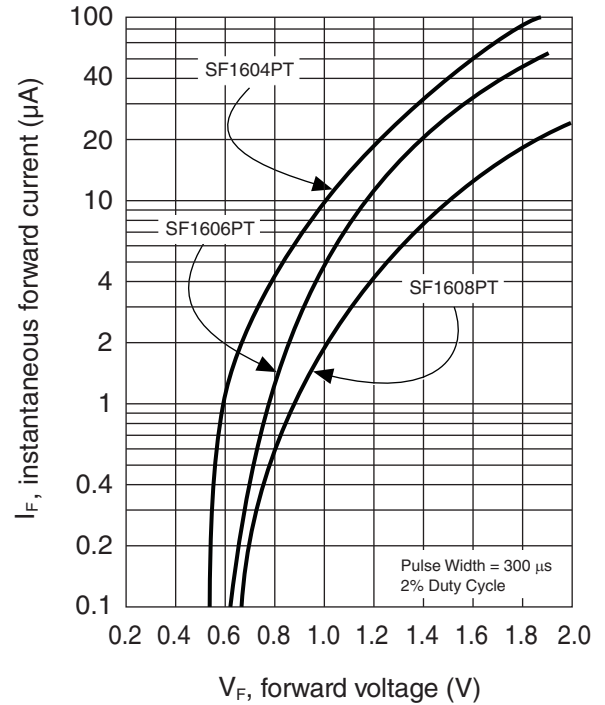
Note: Mounted on Heatsink Size of 76.2mm x 127mm x 6.35mm Al-Plate.

Rating And Characteristic Curves

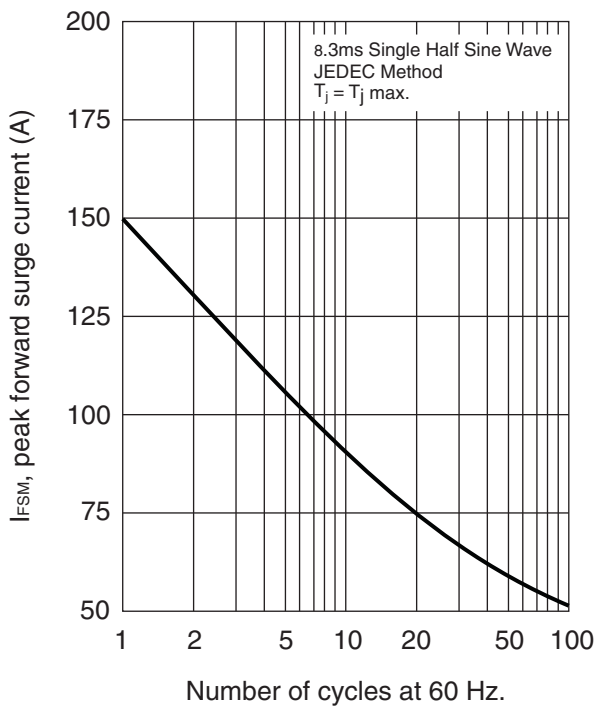
MAXIMUM FORWARD CURRENT DERATING CURVE



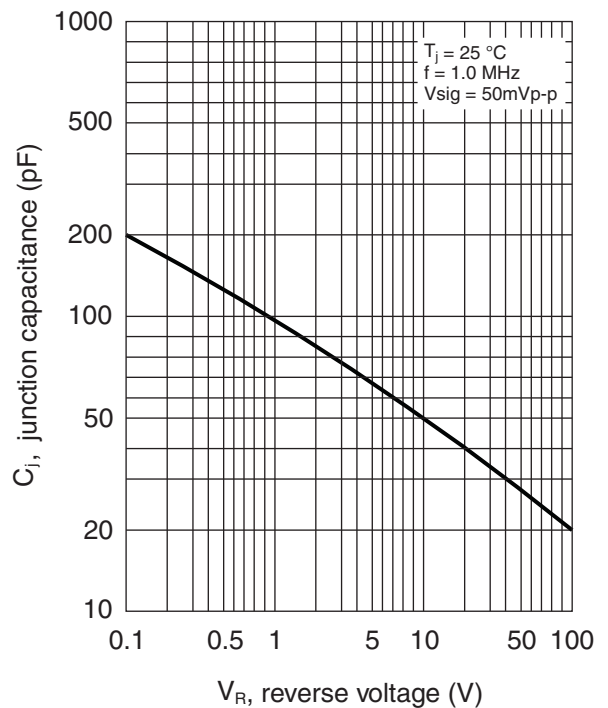
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG



MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

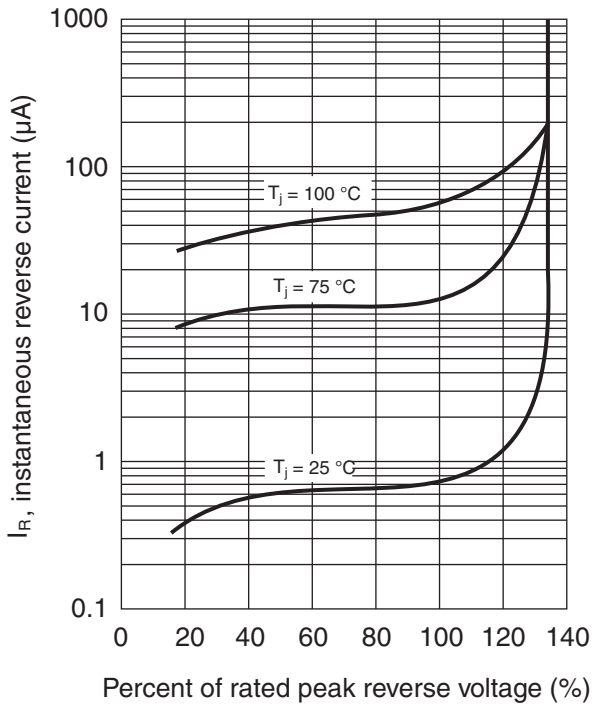


TYPICAL JUNCTION CAPACITANCE PER LEG

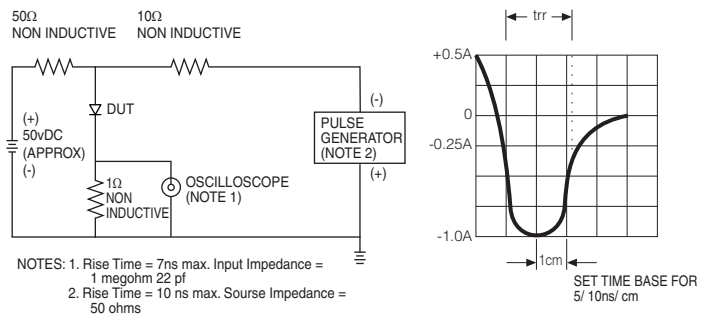


Rating And Characteristic Curves

TYPICAL REVERSE CHARACTERISTICS



REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



PACKAGE MECHANICAL DATA

TO-3P/TO-247AD

