



SFP81 THRU SFP87

Isolation 8 A Glass Passivated Super Fast Rectifiers

Voltage Range 50 to 600 Volts

Current 8.0 Amperes

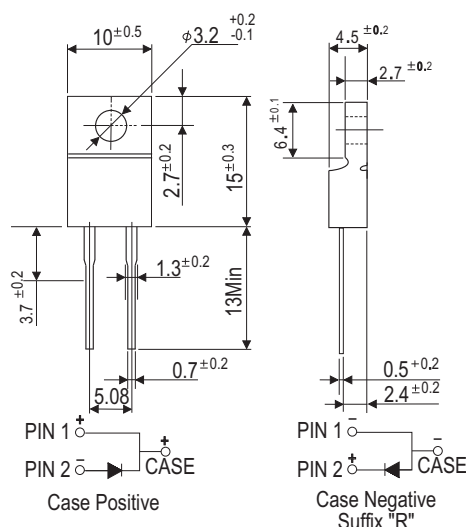
Features

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability

Mechanical Data

- * Case: molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Leads, solderable per MIL-STD- 202, Method 208 guaranteed
- * Polarity: As marked
- * High temperature soldering guaranteed:
250°C/10 seconds 0.25", (6.35mm) from case.
- * Weight: 2.24 grams
- * Mounting torque: 5 in- lbs. max.

ITO-220A



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

Type Number	SFP81	SFP82	SFP83	SFP84	SFP85	SFP86	SFP87	Units
Maximum Recurrent Peak Reverse Voltage	50	100	150	200	300	400	600	V
Maximum RMS Voltage	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current @ T _c =100°C	8.0							A
Peak Forward Surge Current, 8.3 ms SingleHalf Sine-wave Superimposed on Rated Load (JEDEC method)	125							A
Maximum Instantaneous Forward Voltage @ 8.0A	0.975				1.3		1.7	V
Maximum DC Reverse Current @ T _A =25°C	10							uA
At Rated DC Blocking Voltage @ T _A =100°C	400							uA
Maximum Reverse Recovery Time (Note 1)	35							nS
Typical Junction Capacitance (Note 2)	80				60			pF
Typical Thermal Resistance Rθ JC (Note 3)	3.0							°C/W
Operating Temperature Range T _j	-55 to +150							°C
Storage Temperature Range T _{STG}	-55 to +150							°C

Notes:

1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.
3. Thermal Resistance from Junction to Case Mounting on Heatsink.

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RATINGS AND CHARACTERISTIC CURVES (SFP81 THRU SFP87)

FIG . 1 -REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

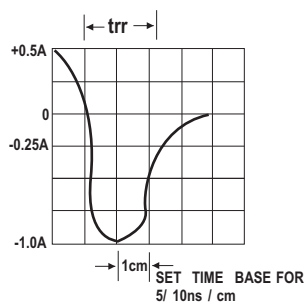
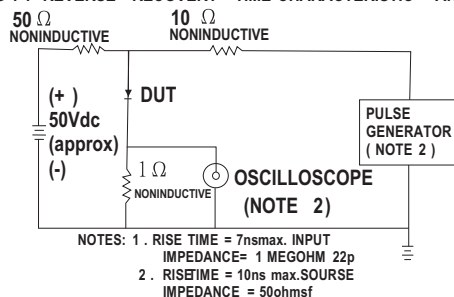


FIG . 2 -MAXIMUM AVERAGE FORWARD CURRENT DERATING

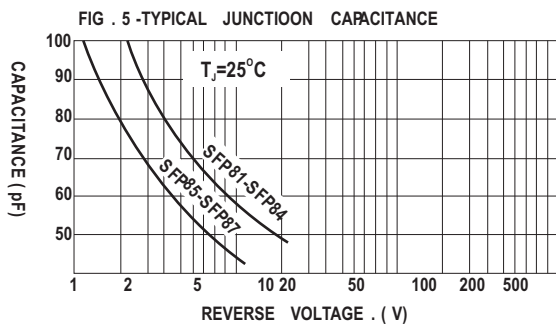
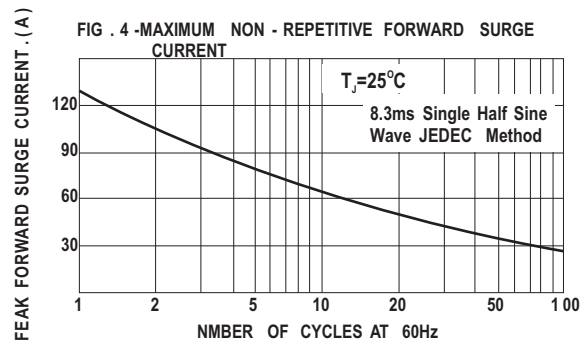
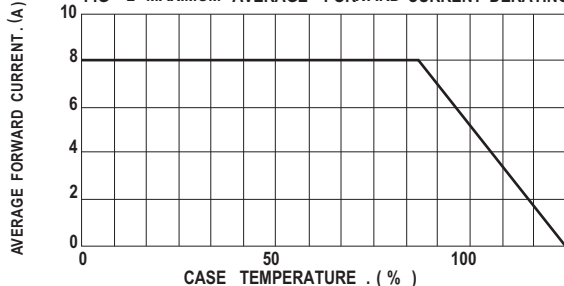


FIG . 3 -TYPICAL REVERSE CHARACTERISTICS

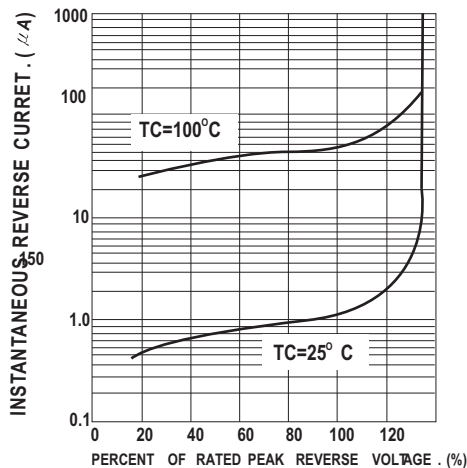


FIG . 6 -TYPICAL FORWARD CHARACTERISTICS

