



SFF2004G THRU SFF2005G

Isolation 20.0 AMPS. Glass Passivated Super Fast Rectifiers



Voltage Range
200 to 300 Volts
Current
20.0 Amperes

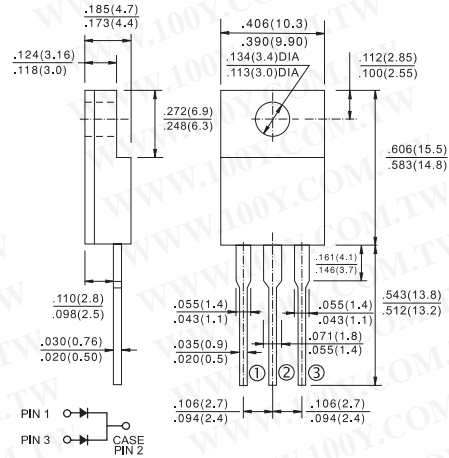
Features

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

Mechanical Data

- ◇ Cases: ITO-220AB 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: 260°C/10 seconds .16", (4.06mm) from case.
- ◇ Weight: 2.24 grams

ITO-220AB



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	Symbol	SFF2004G	SFF2005G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	300	V
Maximum RMS Voltage	V_{RMS}	140	210	V
Maximum DC Blocking Voltage	V_{DC}	200	300	V
Maximum Average Forward Rectified Current @ $T_c = 100^\circ\text{C}$	$I_{(AV)}$	20.0		A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	180		A
Maximum Instantaneous Forward Voltage @ 10.0A	V_F	0.975	1.30	V
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$	I_R	10 400		μA μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	35		nS
Typical Junction Capacitance (Note 2)	C_j	90		pF
Typical Thermal Resistance (Note 3)	$R\theta_{JC}$	2.5		$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_J	-65 to +150		$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +150		$^\circ\text{C}$

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

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RATINGS AND CHARACTERISTIC CURVES (SFF2004G THRU SFF2005G)

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

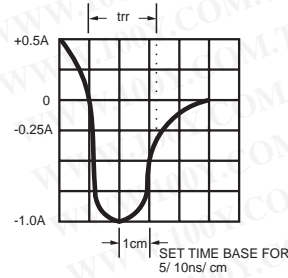
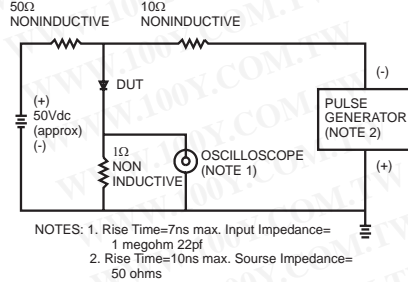


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

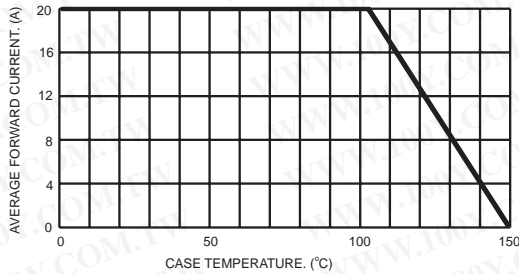


FIG.3- TYPICAL REVERSE CHARACTERISTICS

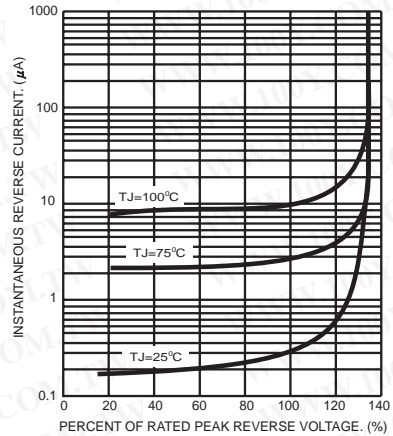


FIG.4- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

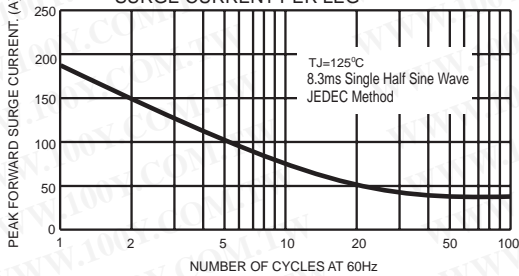


FIG.6- TYPICAL FORWARD CHARACTERISTICS PER LEG

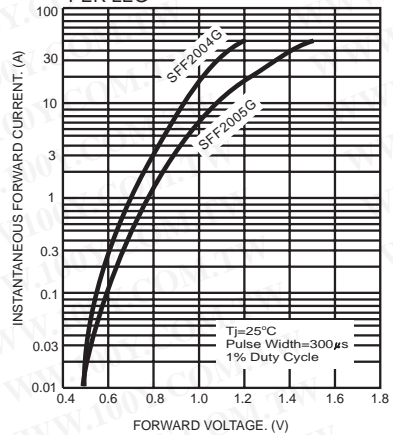


FIG.5- TYPICAL JUNCTION CAPACITANCE PER LEG

