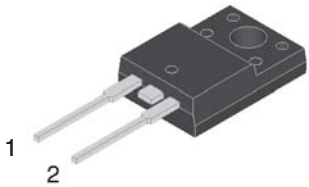
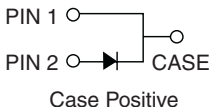


8.0 Amp. Glass Passivated Ultrafast Recovery Rectifier

ITO-220AC  1 2  PIN 1 PIN 2 CASE Case Positive	Voltage 200 to 600 V	Current 8.0 A
	FEATURES • Ultrafast recovery time for high efficiency • Low power losses • Low forward voltage drop • High forward surge current capability • Solder dip 260°C, 10s / 16" (4.06 mm) from case • Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC • Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C	
	MECHANICAL DATA • Case: ITO-220AC. Epoxy meets UL 94V-0 flammability rating. • Polarity: As marked on the body. • Mounting Torque: 5 in-lbs maximum. • Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test.	
	TYPICAL APPLICATIONS Used in high frequency rectifier of switching mode power supplies, inverters, freewheeling diodes, dc-to-dc converters, and other power switching application.	

Maximun Ratings and Electrical Characteristics at 25°C

		SFAF804G	SFAF806G	SFAF808G
Marking Code		SFAF804G	SFAF806G	SFAF808G
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 @ T _c = 100 °C	8 A		
I _{FSM}	Peak Forward Surge Current 8.3 ms. single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	125 A		
T _{rr}	Maximum Reverse Recovery Time From I _F =0.5 A; I _R = 1 A; I _{RR} = 0.25 A	35 nS		
C _j	Typical Junction Capacitance at 1MHz and reverse voltage of 4V _{DC}	90 pF	60 pF	
T _j	Operating Temperature Range	– 65 to + 150 °C		
T _{stg}	Storage Temperature Range	– 65 to + 150 °C		

Electrical Characteristics at Tamb = 25 °C

V _F	Max. Instantaneous Forward Voltage @ 8 A (Note 2)	0.975 V	1.3 V	1.7 V
I _R	Maximum DC Reverse Current @ T _c = 25 °C at Rated DC Blocking Voltage @ T _c = 100 °C	10 µA 400 µA		
R _{thj-c}	Typical Thermal Resistance (Note 1)	4.0 °C/W		

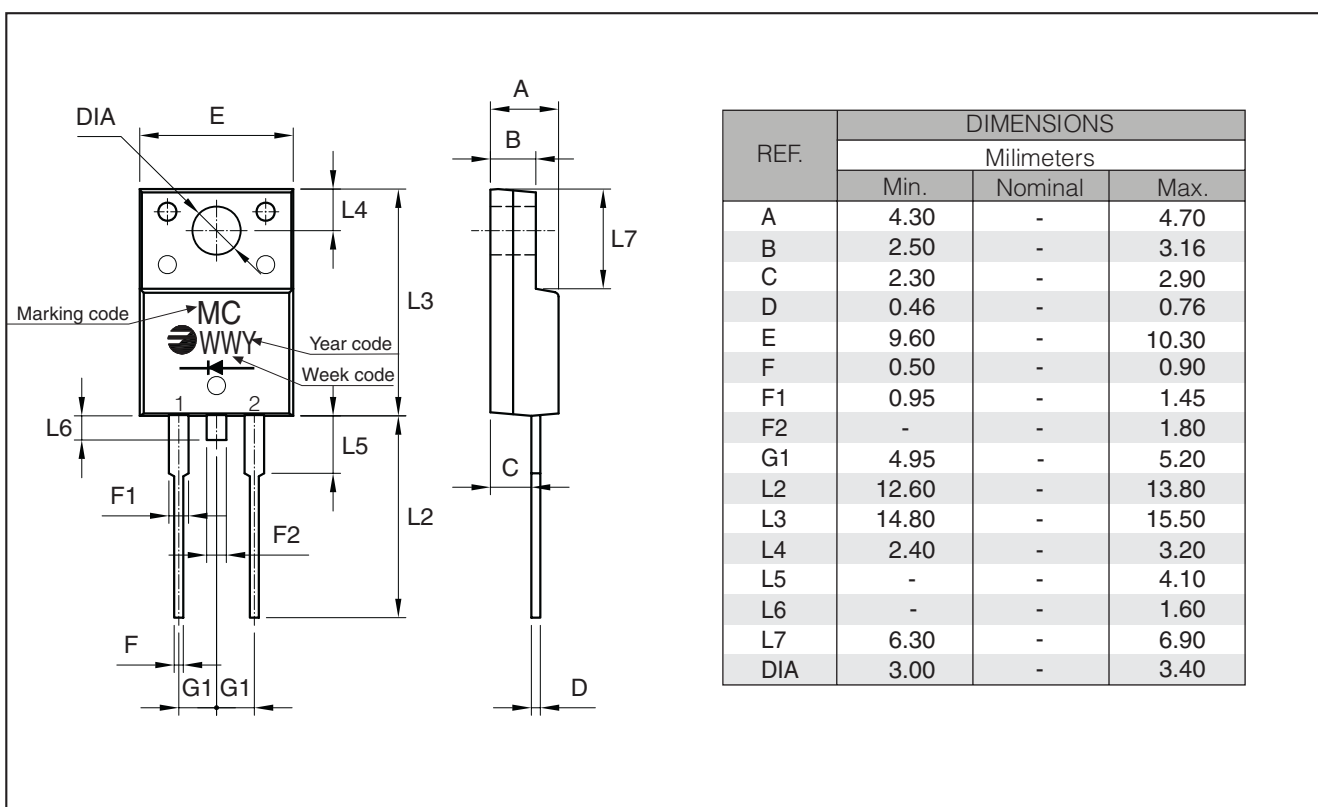
Note: 1. Mounted on Heatsink Size of 50.8 mm x 76.2 mm x 6.35 mm Al-Plate.
2. Pulse test: 300µs pulse width, 1% duty cycle.

8.0 Amp. Glass Passivated Ultrafast Recovery Rectifier

Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
SFAF804G 00TUC	TU	TUBE	2,000	1.70

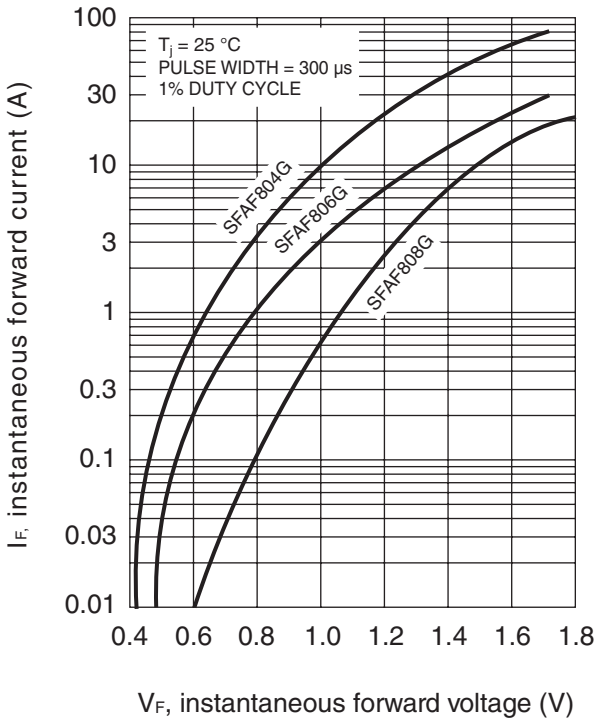
Package Outline Dimensions: (mm) ITO-220AC



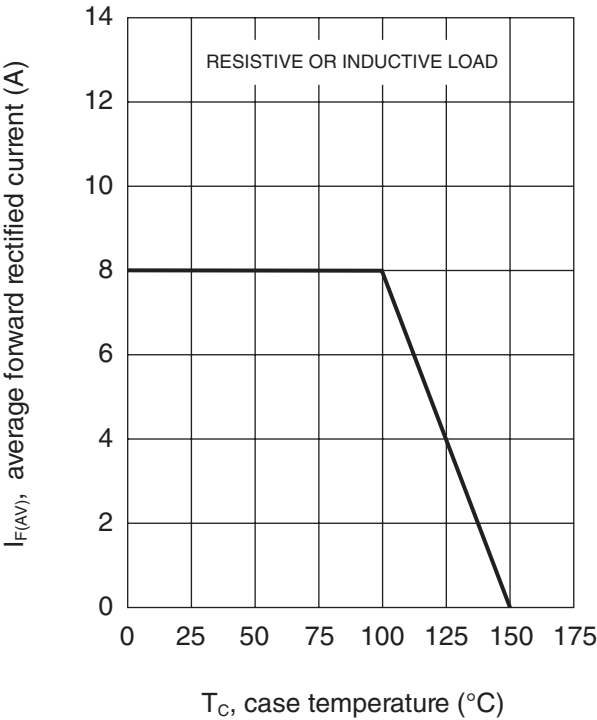
8.0 Amp. Glass Passivated Ultrafast Recovery Rectifier

Ratings and Characteristics (Ta 25 °C unless otherwise noted)

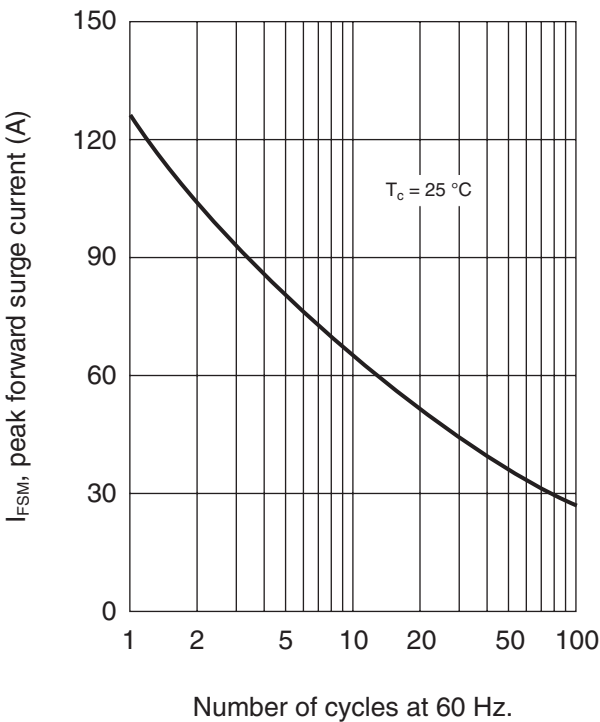
TYPICAL FORWARD CHARACTERISTIC



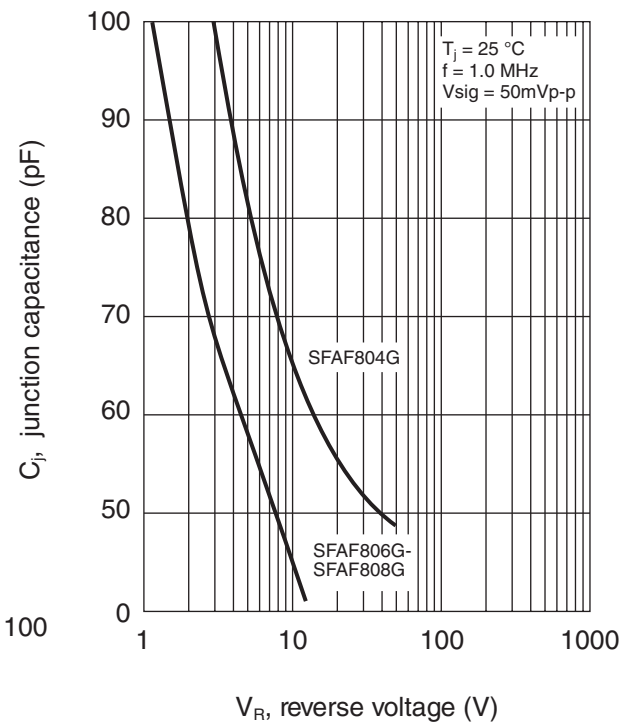
FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



8.0 Amp. Glass Passivated Ultrafast Recovery Rectifier

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