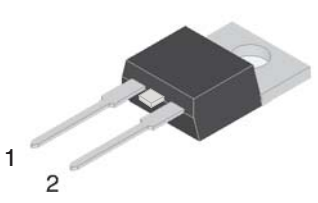
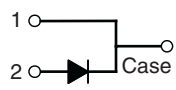




8.0 Amp. Glass Passivated Ultrafast Recovery Rectifier

<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">TO-220AC</div>  <div style="margin-top: 20px;">  <p>Case Positive</p> </div> </div>	Voltage 200 to 600 V	Current 8.0 A	
	FEATURES <ul style="list-style-type: none"> 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 		  RoHS COMPLIANT
	MECHANICAL DATA <ul style="list-style-type: none"> Case: TO-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

		SFA804G	SFA806G	SFA808G
Marking Code		SFA804G	SFA806G	SFA808G
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 current Current @ T _c = 100 °C	8 A		
I _{FSM}	8.3 ms. peak forward surge current (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}	100 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

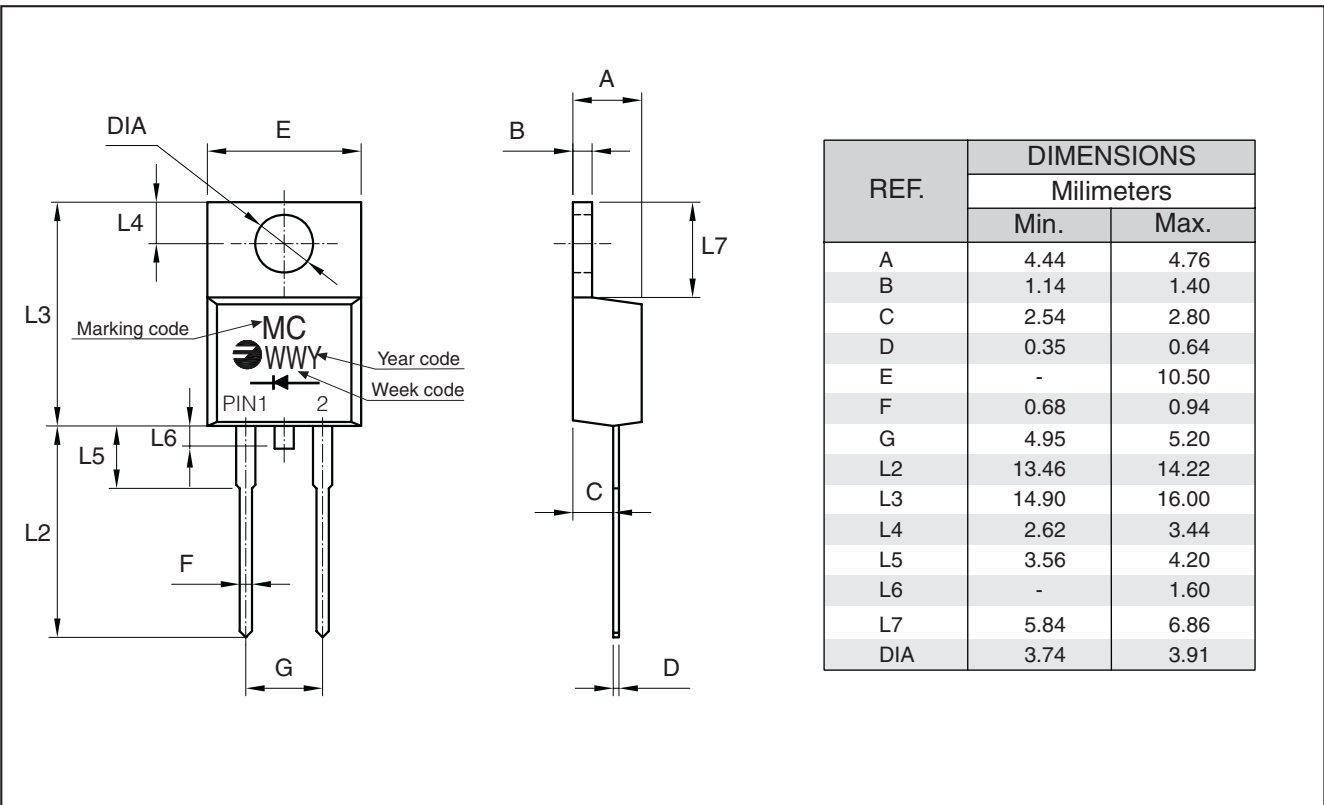
V _F	Max. forward voltage drop at I _F = 8 A	T _j = 25 °C	0.975 V	1.3 V	1.7 V
I _R	Max. Instantaneous reverse current at V _R = V _{RRMax}	T _j = 25 °C T _j = 100 °C	10 µA 400 µA		
R _{thj-C}	Typical Thermal Resistance	4.0 °C/W			

8.0 Amp. Glass Passivated Ultrafast Recovery Rectifier

Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
SFA804G 00TUC	TU	TUBE	2,000	2.24

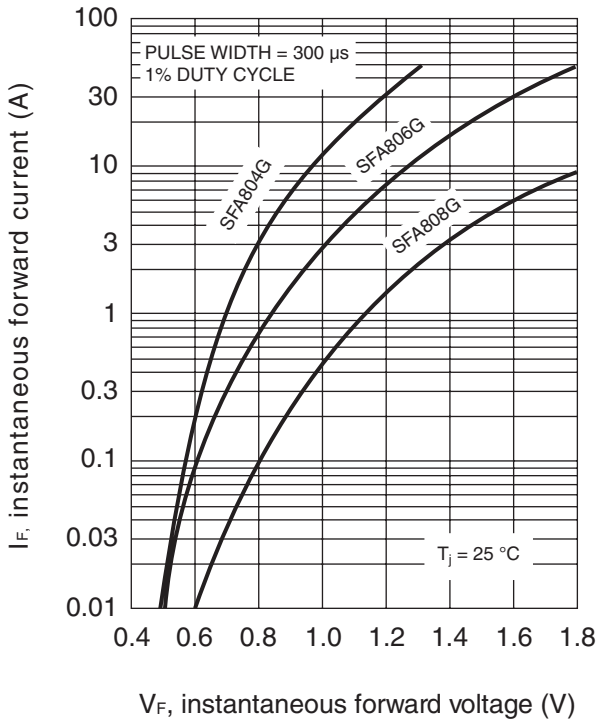
Package Outline Dimensions: (mm) TO-220AC



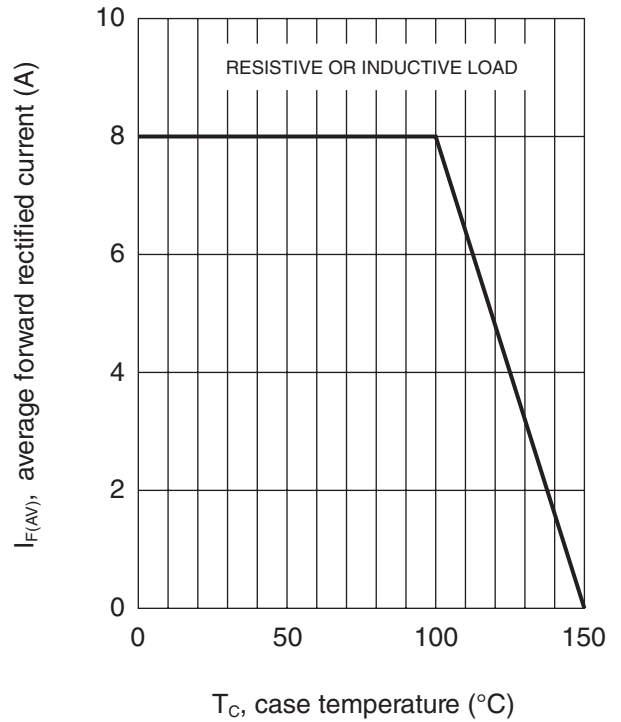
8.0 Amp. Glass Passivated Ultrafast Recovery Rectifier

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

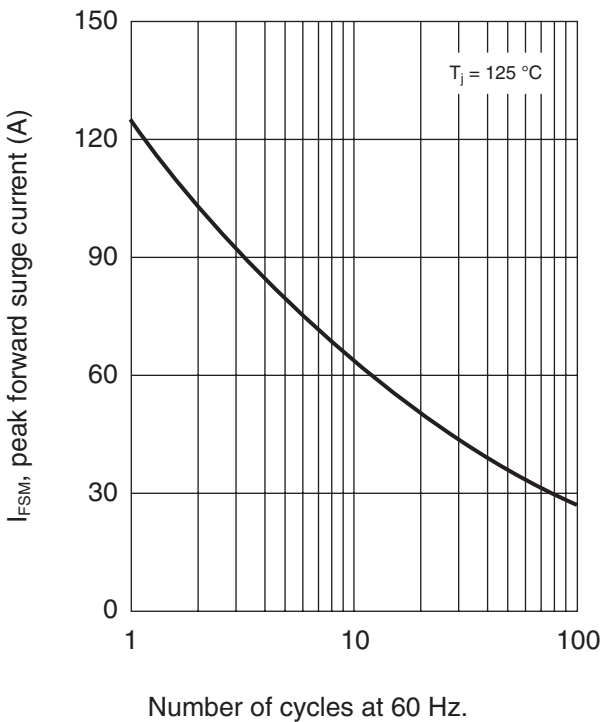
TYPICAL FORWARD CHARACTERISTIC



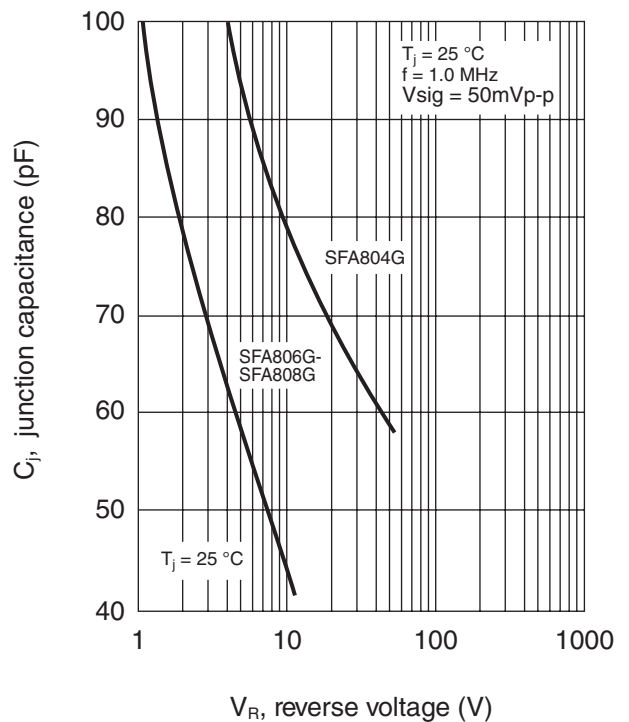
FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



8.0 Amp. Glass Passivated Ultrafast Recovery Rectifier**Revision History**

Date	Revision	Description of Changes
15-Mar-2009	0	Original Data Sheet
21-Sep-2016	1	Format update

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