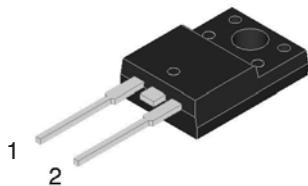
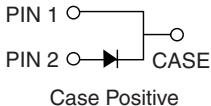


20 Amp. Glass Passivated Ultrafast Rectifiers

ITO-220AC  	Voltage 200 to 600 V	Current 20 A
<ul style="list-style-type: none"> • High efficiency, Low VF. • High current capability • High reliability • High surge current capability • Low power loss • For use in low voltage, high frequency invertor, free wheeling, and polarity protection application 		
MECHANICAL DATA <ul style="list-style-type: none"> • Cases: ITO-220AC Molded plastic • Epoxy: UL 94V-0 rate flame retardant • Terminals: Pure tin plated, Lead free, solderable per MIL-STD-202, Method 208 guaranteed • Polarity: As marked • High temperature soldering guaranteed: 260 °C/10 seconds, 4.06mm from case. • Weight: 2.24 grams 		

Absolute Maximum Ratings, according to IEC publication No. 134

		SFAF 2004G	SFAF 2006G	SFAF 2008G
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 @ $T_c = 100^\circ\text{C}$	20 A		
I_{FSM}	Peak Forward Surge Current 8.3 ms. single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	200 A		
T_{rr}	Maximum Reverse Recovery Time From $I_F = 0.5 \text{ A}$; $I_R = 1 \text{ A}$; $I_{RR} = 0.25 \text{ A}$	35 nS		
C_j	Typical Junction Capacitance at 1MHz and reverse voltage of 4VDC	170 pF	150 pF	
T_j, T_{stg}	Operating and Storage Temperature Range	– 65 to + 150 °C		

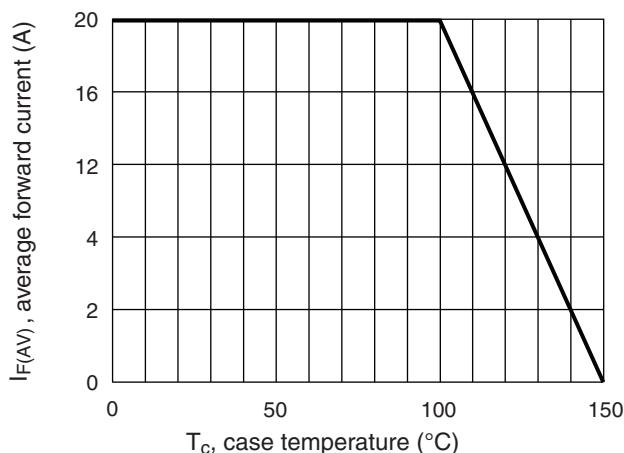
Electrical Characteristics

		SFAF 2004G	SFAF 2006G	SFAF 2008G
V_F	Maximum Instantaneous Forward Voltage @ 20.0 A	0.975 V	1.3 V	1.7 V
I_R	Maximum DC Reverse Current @ $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	10 μA 400 μA		
R_{thj-c}	Typical Thermal Resistance (See Note)	3.0 °C/W		

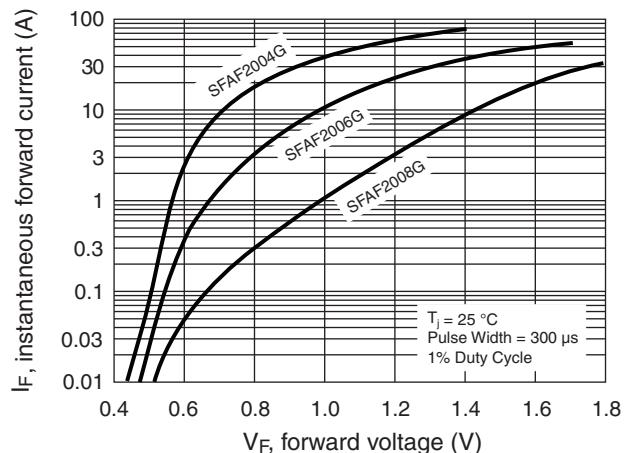
Note: Mounted on Heatsink Size of 76.2 mm x 127 mm x 6.35 mm Al-Plate.

Rating And Characteristic Curves

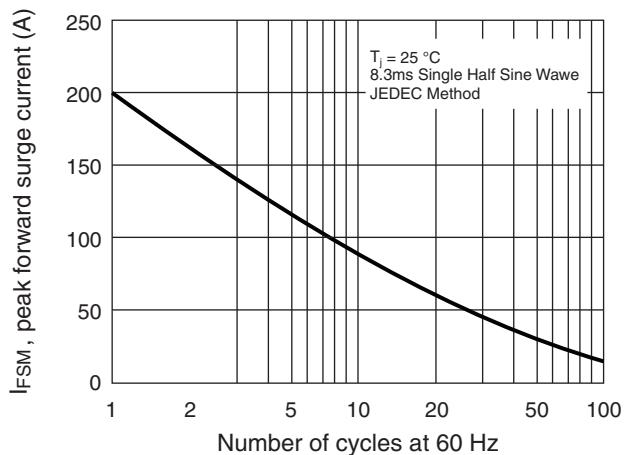
MAXIMUM FORWARD CURRENT DERATING CURVE



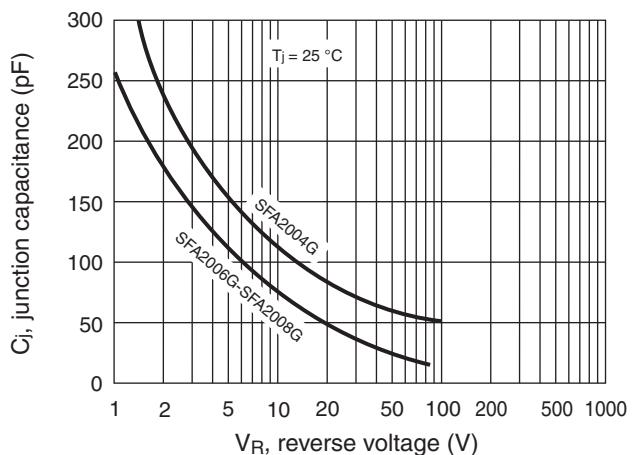
TYPICAL FORWARD CHARACTERISTICS



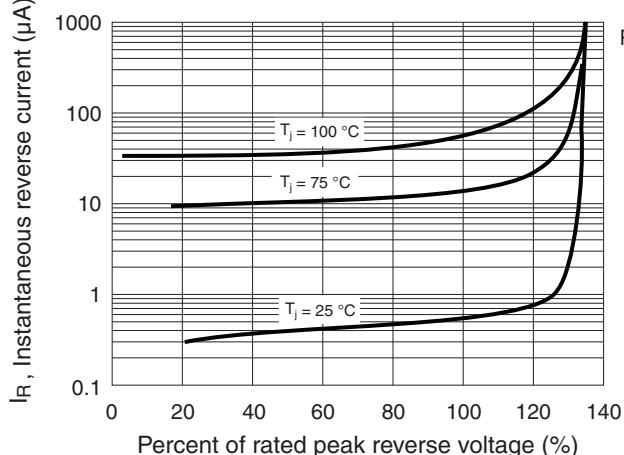
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



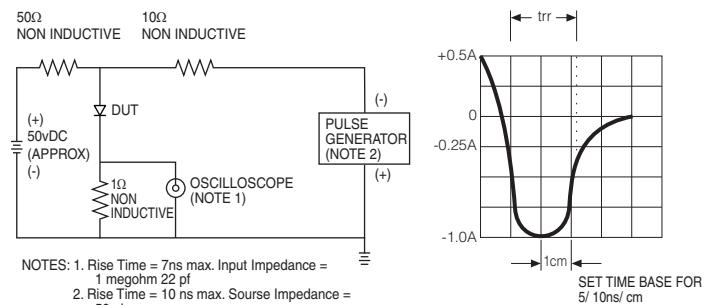
TYPICAL JUNCTION CAPACITANCE



TYPICAL REVERSE CHARACTERISTICS

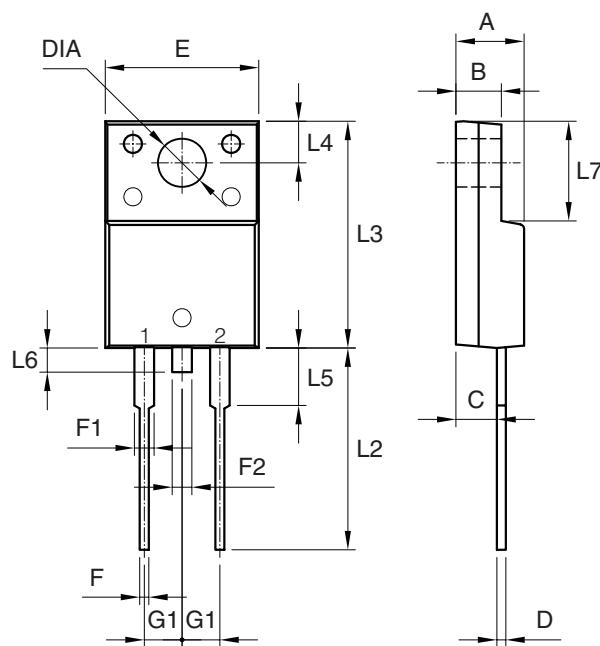


REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



PACKAGE MECHANICAL DATA

ITO-220AC



REF.	DIMENSIONS		
	Milimeters		
	Min.	Nominal	Max.
A	4.40	-	4.70
B	3.00	-	3.16
C	2.50	-	2.80
D	0.50	-	0.76
E	9.90	-	10.30
F	0.50	-	0.90
F1	1.10	-	1.40
F2	-	-	1.80
G1	2.40	2.55	2.70
L2	13.20	-	13.80
L3	14.80	-	15.50
L4	2.55	-	2.85
L5	3.70	-	4.10
L6	-	-	1.60
L7	6.30	-	6.90
DIA	3.00	-	3.40