
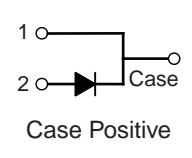


8 Amp. Glass Passivated Ultrafast Recovery Rectifier

<p>TO-220AC</p>   <p style="text-align: center;">Case Positive</p>	<p>Voltage 200 to 600 V</p> <p>Current 8 A</p>
<ul style="list-style-type: none"> • Glass Passivated Junction • High current capability • The plastic material carries U/L recognition 94 V-0 • Terminals: Leads solderable per MIL-STD202 • Low forward Voltage drop 	

Absolute Maximum Ratings, according to IEC publication No. 134

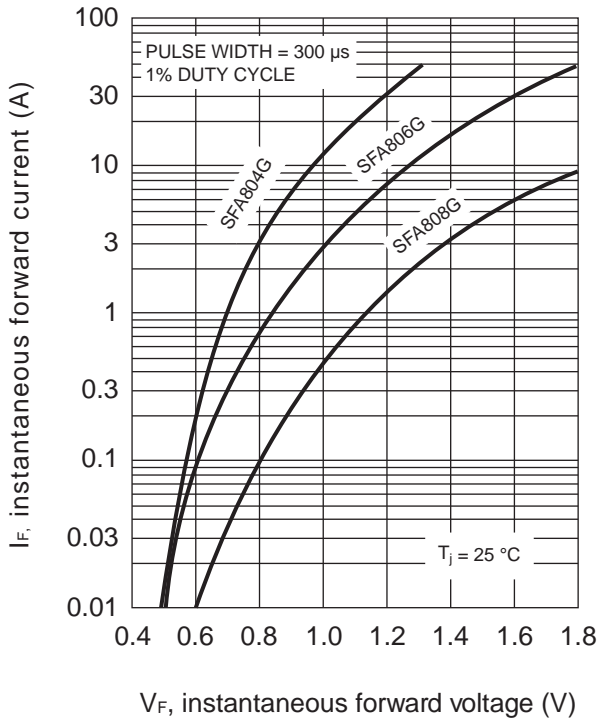
		SFA804G	SFA806G	SFA808G
V_{RRM}	Peak recurrent reverse voltage (V)	200	400	600
V_{RMS}	Maximum RMS voltage (V)	140	280	420
V_{DC}	Maximum DC blocking voltage (V)	200	400	600
$I_{F(AV)}$	Maximum average Forward current at $T_C = 100\text{ }^\circ\text{C}$	8 A		
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	125 A		
T_{RR}	Max. 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 1 MHz 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

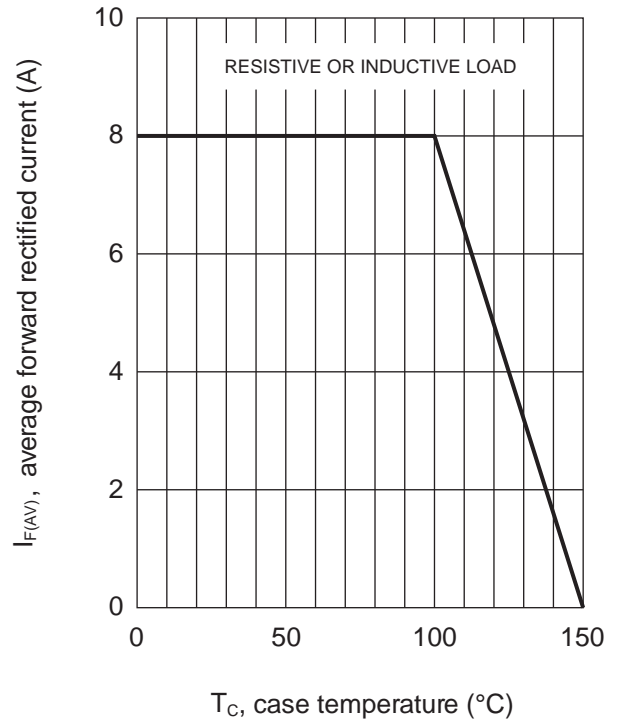
		SFA804G	SFA806G	SFA808G
V_F	Max. forward voltage drop at $I_F = 8\text{ A}$ $T_j = 25\text{ }^\circ\text{C}$	0.975 V	1.3 V	1.7 V
I_R	Max. Instantaneous reverse current at $V_R = V_{RRMax}$ $T_j = 25\text{ }^\circ\text{C}$ $T_j = 100\text{ }^\circ\text{C}$	10 μA		
		400 μA		
R_{thj-C}	Typical Thermal Resistance	4.0 °C/W		

Rating And Characteristic Curves

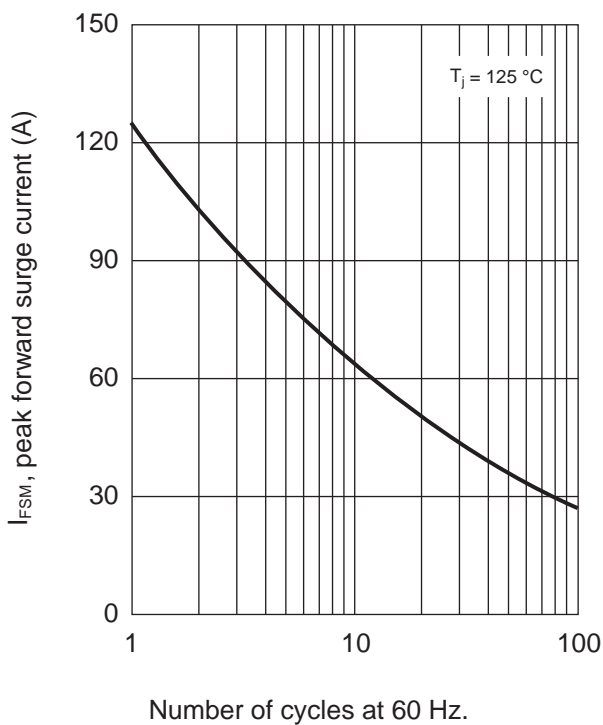
TYPICAL FORWARD CHARACTERISTIC



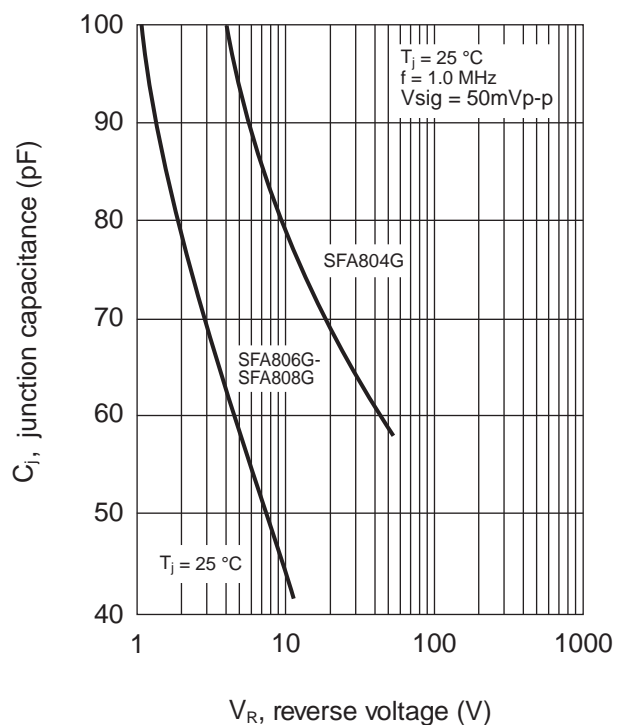
FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

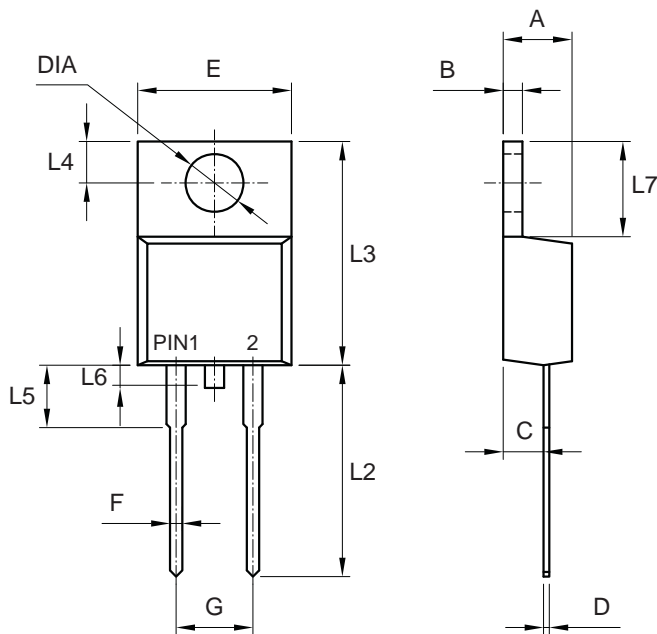


TYPICAL JUNCTION CAPACITANCE



8 Amp. Glass Passivated Ultrafast Recovery Rectifier

PACKAGE MECHANICAL DATA TO-220AC



REF.	DIMENSIONS	
	Milimeters	
	Min.	Max.
A	4.44	4.70
B	1.14	1.40
C	2.54	2.79
D	0.35	0.64
E	-	10.50
F	0.68	0.94
G	4.95	5.20
L2	13.46	14.22
L3	14.9	15.10
L4	2.62	2.87
L5	3.56	4.06
L6	-	1.60
L7	5.84	6.86
DIA	3.74	3.91