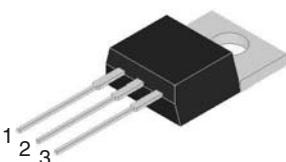
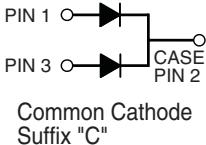


20.0 Amp. Glass Passivated Ultrafast Rectifiers

TO-220AB   Common Cathode Suffix "C"	Voltage 150 V to 600 V	Current 20.0 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 inverter, free wheeling, and polarity protection application. <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Cases: TO-220AB Molded plastic • Epoxy: UL 94V0 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

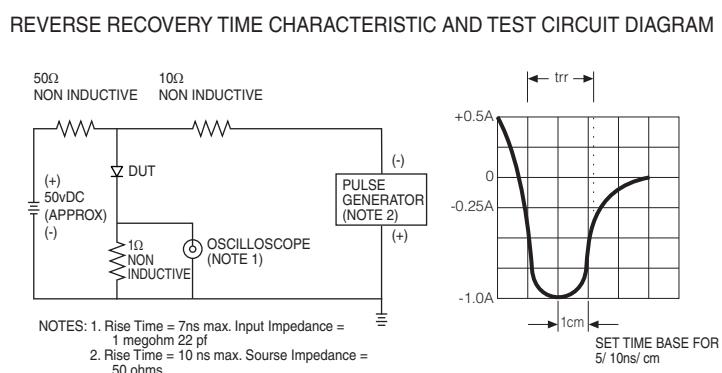
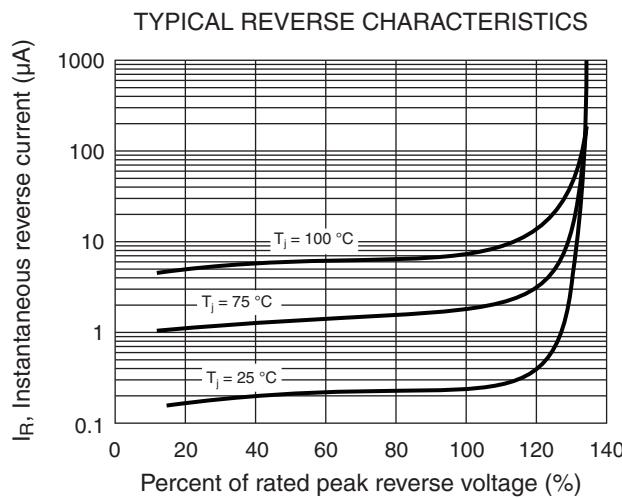
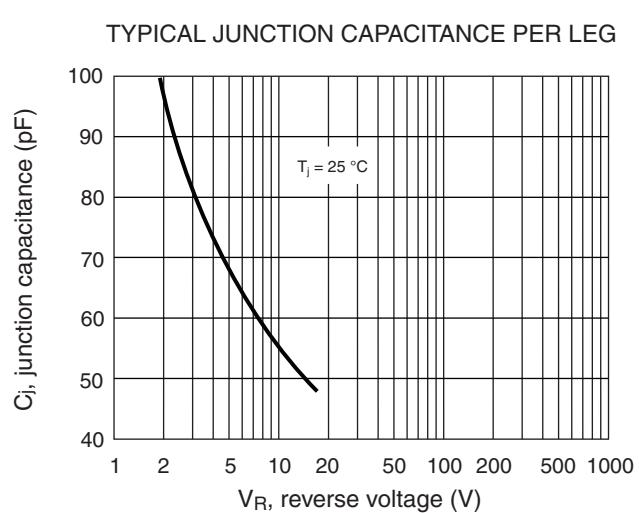
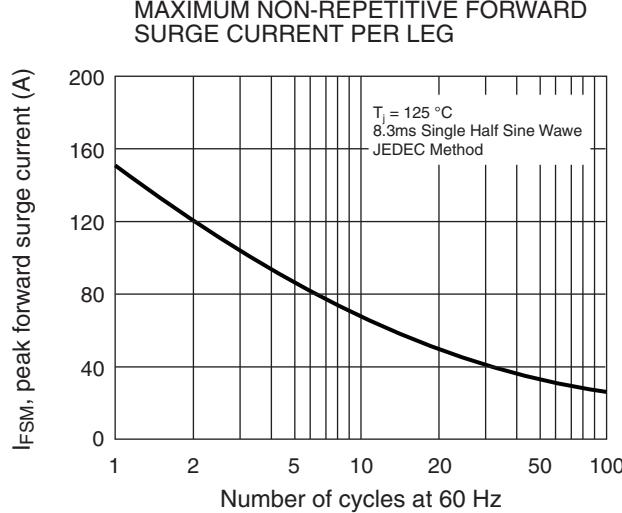
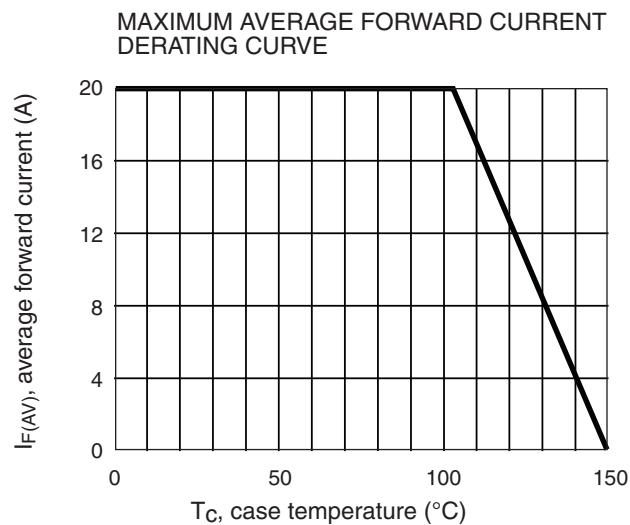
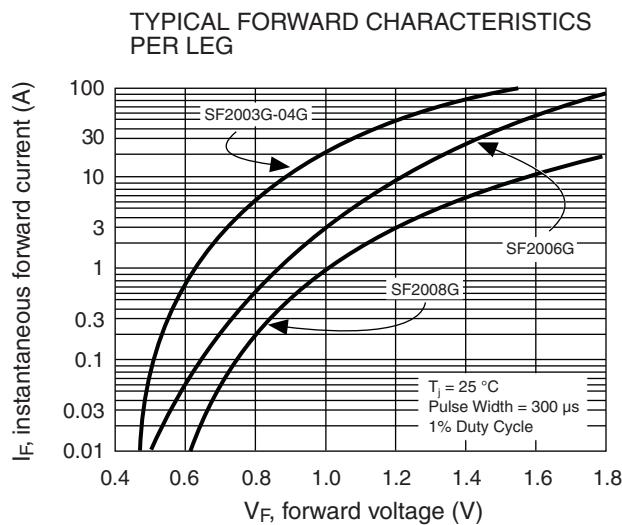
		SF 2003G	SF 2004G	SF 2006G	SF 2008G
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	150	200	400	600
V_{RMS}	Maximum RMS Voltage (V)	105	140	280	420
V_{DC}	Maximum DC Blocking Voltage (V)	150	200	400	600
$I_{F(AV)}$	Maximum Average Forward Rectified Current @ $T_c = 100^\circ C$	20 A			
I_{FSM}	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	150 A			
T_{rr}	Maximum Reverse Recovery Time from $I_F = 0.5A$; $I_R = 1A$; $I_{RR} = 0.25A$	35 nS			
C_J	Typical Junction Capacitance at 1 MHz and reverse voltage of 4V _{DC}	80 pF			
T_j	Operating Temperature Range	-65 to +150 °C			
T_{stg}	Storage Temperature Range	-65 to +150 °C			

Electrical Characteristics

V_F	Maximum Instantaneous Forward Voltage @ 10 A	0.975 V	1.3 V	1.7 V
I_R	Maximum DC Reverse Current @ $T_A = 25^\circ C$ at Rated DC Blocking Voltage @ $T_A = 100^\circ C$	5 µA 400 µA		
$R_{th(j-c)}$	Typical Thermal Resistance (See note)	2.5 °C/W		

NOTE: Thermal Resistance from Junction to Case Mounted on Heatsink size of 76.2 x 127 x 6.35 Al-Plate.

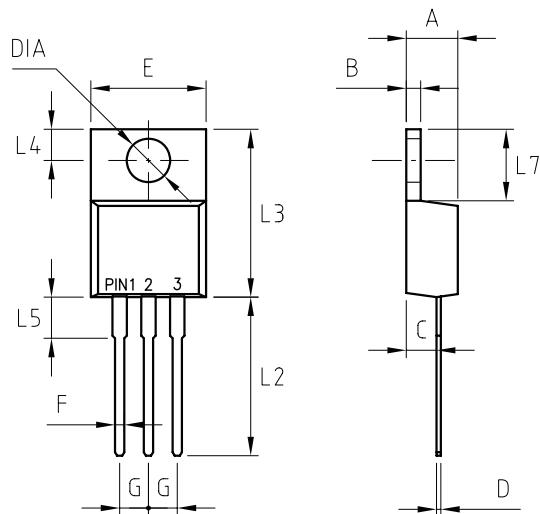
Rating And Characteristic Curves



16 Amp. Glass Passivated Ultrafast Recovery Rectifier

PACKAGE MECHANICAL DATA

TO-220AB



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	--	10.5
F	0.68	0.94
G	2.41	2.67
L2	13.46	14.22
L3	14.90	15.10
L4	2.62	2.87
L5	3.56	4.06
L7	5.84	6.86
DIA	3.74	3.91