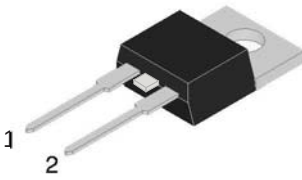
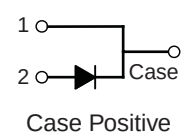


8.0 Amp. Glass Passivated Ultrafast Rectifiers

TO-220AC   Case Positive	Voltage 200 to 600 V	Current 8.0 A
	• Low forward Voltage drop • High current capability • High reliability • High surge current capability	
	Mechanical Data • Cases: TO-220A molded plastic • Epoxy: UL 94V-O rate flame retardant • Terminals: Leads 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

		FUR820	FUR840	FUR860
V _{RRM}	Peak 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 9.5mm Lead Lenght (See Fig. 1)	8.0 A		
I _{FSM}	Peak Forward Surge Current 8.3 ms. single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	100 A		
T _{rr}	Maximum Reverse Recovery Time From I _F =0.5 A; I _R = 1 A; I _{RR} = 0.25 A	25 nS	50 nS	
T _j	Operating temperature range	– 65 to + 175 °C		
T _{stg}	Storage temperature range	– 65 to + 175 °C		

Electrical Characteristics

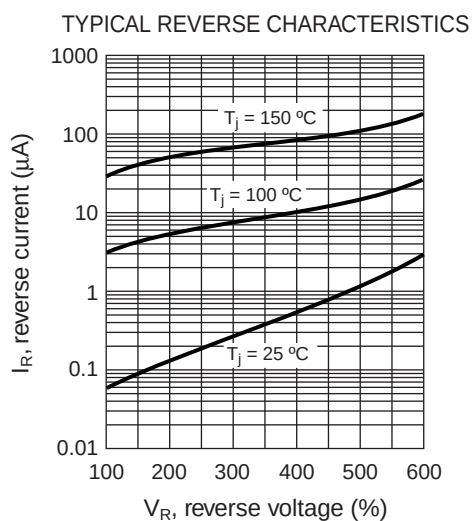
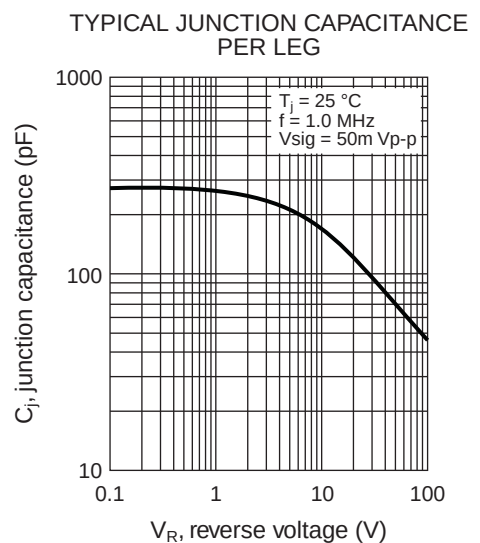
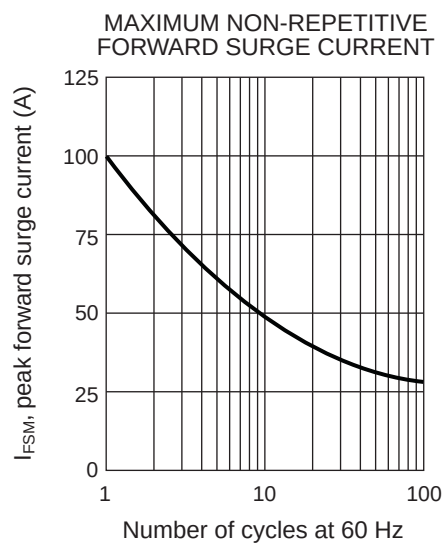
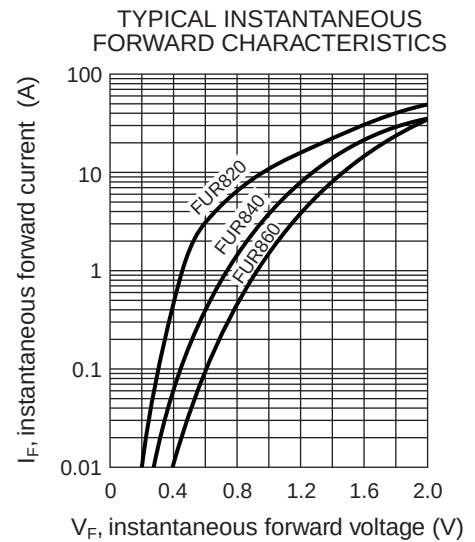
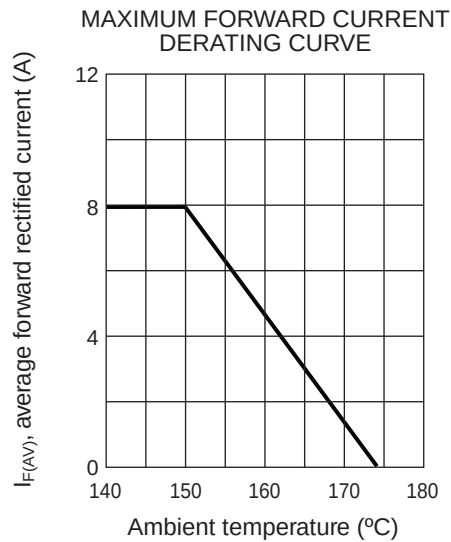
		FUR820	FUR840	FUR860
V_F	Max. Instantaneous Forward Voltage @ 8.0 A	0.975 V	1.3 V	1.7 V
I_R	Max. DC Reverse Current at @ $T_C = 25$ °C Rated DC Blocking Voltage @ $T_C = 150$ °C (Note 3)	5.0 μ A 250 μ A		
R_{thj-C}	Typical Thermal Resistance (Note 2)	3.0 °C/W	2.0 °C/W	

Notes: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

2. Thermal Resistance from Junction to Case, Mounted on Heatsink Size of 50.8 mm x 76.2 mm x 6.35 mm Al-Plate.

3. Pulse test: $t_p = 300$ μ S, D4ty Cyc3e < 2

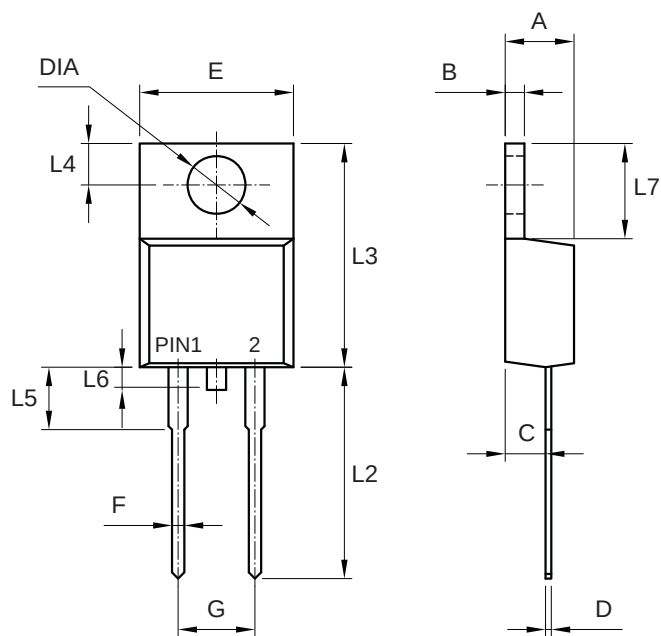
Rating And Characteristic Curves



8.0 Amp. Glass Passivated Ultrafast Rectifiers

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