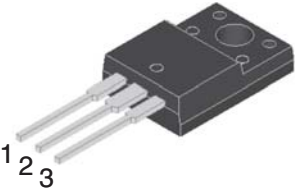
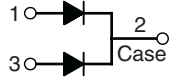




16.0 Amp. Glass Passivated Ultrafast Recovery Rectifier

ITO-220AB   Common Cathode Suffix "C"	Voltage 200 to 600 V	Current 16.0 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 • 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: ITO-220AB. 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.		

Maximum Ratings and Electrical Characteristics at 25°C

		FURF1620CT	FURF1640CT	FURF1660CT
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
$I_{F(AV)}$	Average Rectified Forward Current Per Leg		8 A	
	Total Device, (Rated V_R), $T_C = 150^\circ C$		16 A	
I_{FM}	Peak Rectified Forward Current (Rated V_R , Square Wave, 20 KHz), $T_C = 150^\circ C$ Per Diode Leg		16 A	
I_{FSM}	Non repetitive Peak Surge Current (Surge Applied at Rated Load Conditions Halfwave, Single Phase, 60 Hz)		100 A	
T_{rr}	Maximum Reverse Recovery Time from $I_F = 0.5A$; $I_R = 1A$; $I_{RR} = 0.25A$	25 ns		50 ns
T_j	Operating Temperature Range	-65 to +175 °C		
T_{stg}	Storage Temperature Range	-65 to +175 °C		

Electrical Characteristics at Tamb = 25 °C

V_F	Max. Instantaneous Forward Voltage (Note 1) ($I_F = 8.0$ Amps, $T_C = 25^\circ C$) ($I_F = 8.0$ Amps, $T_C = 150^\circ C$)	0.975 V	1.30 V	1.50 V
		0.895 V	1.300 V	1.20 V
I_R	Maximum Instantaneous Reverse Current at Rated DC Blocking Voltage @ $T_A = 25^\circ C$ @ $T_A = 125^\circ C$	5.0 μA	10 μA	
		250 μA	500 μA	
R_{thj-c}	Maximum Thermal Resistance, Junction to Case	3.0 °C/W	2.0 °C/W	

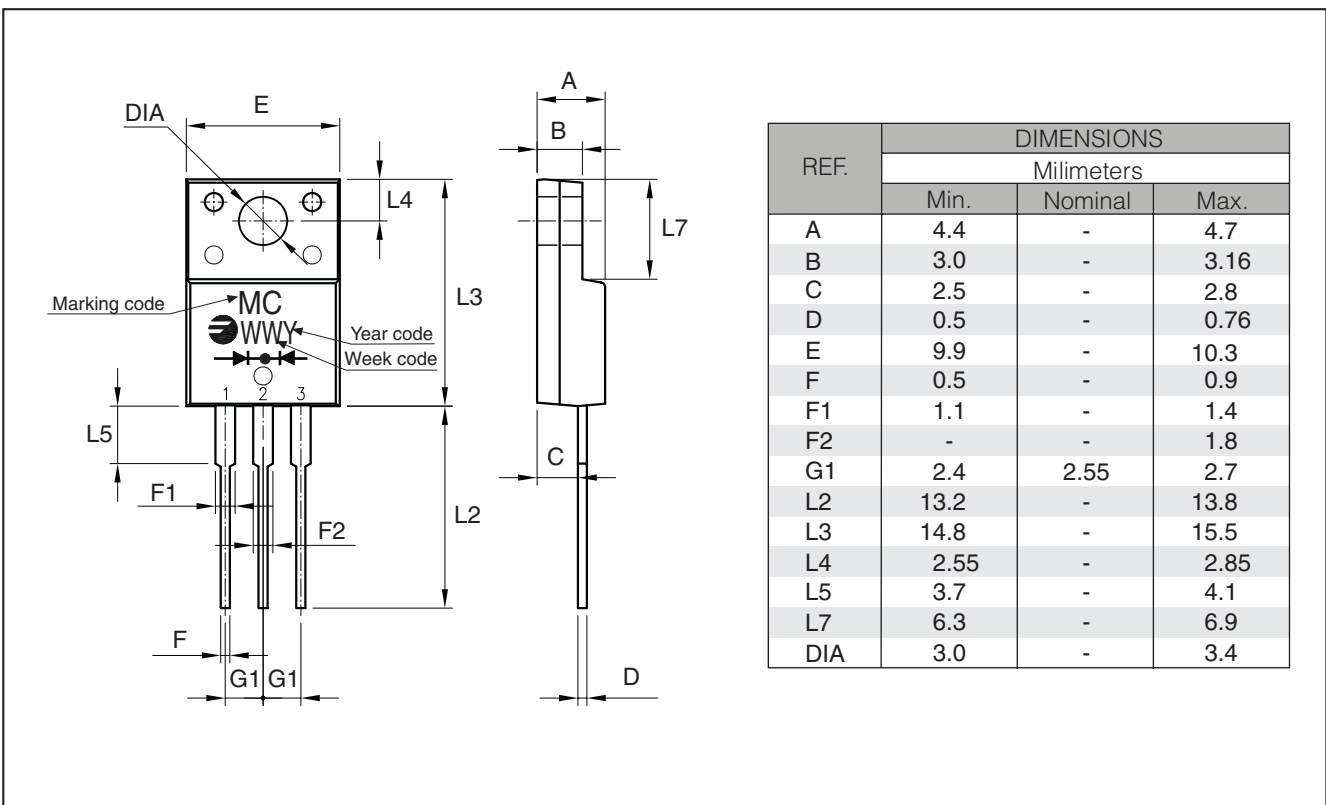
 Note: 1. Pulse Test: Pulse Width = 300 μs , Duty Cycle $\leq 2.0\%$.

16.0 Amp. Glass Passivated Ultrafast Recovery Rectifier

Ordering information

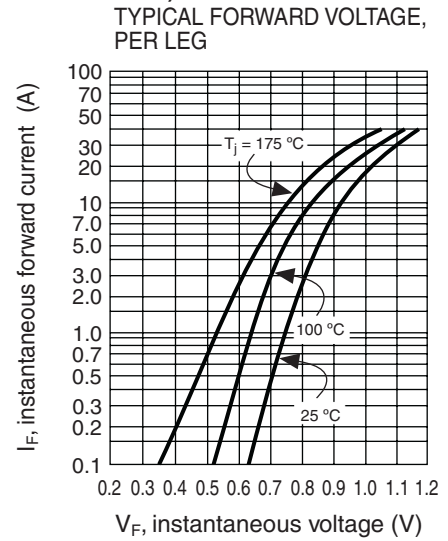
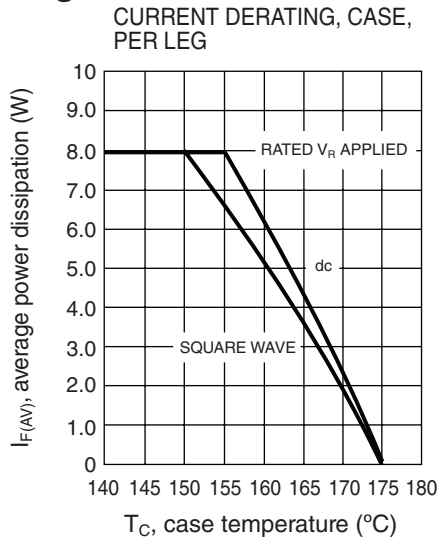
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
FURF1640CTC 00TUC	TU	TUBE	2,000	2.02

Package Outline Dimensions: (mm) ITO-220AB

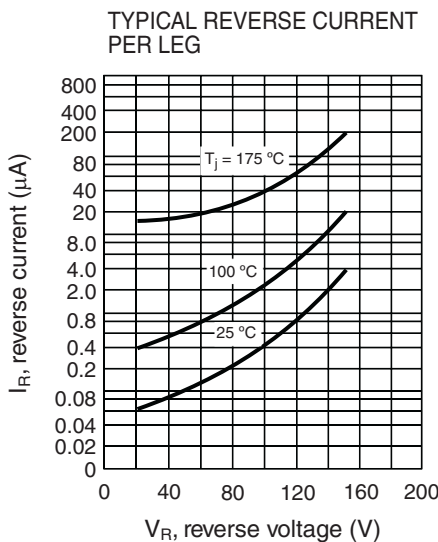
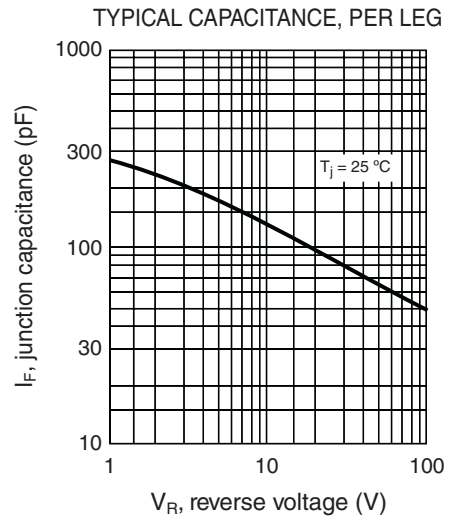
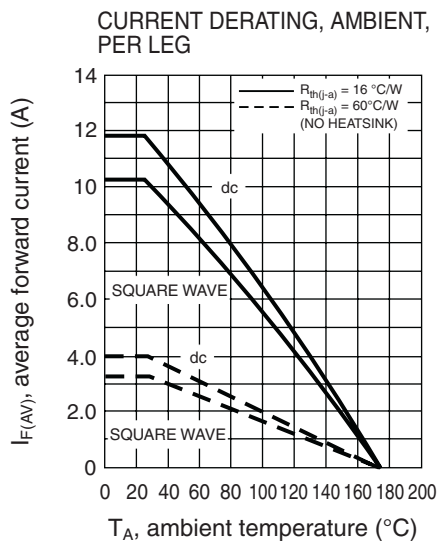


16.0 Amp. Glass Passivated Ultrafast Recovery Rectifier

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



*The curves shown are typical for highest voltage device in the voltage grouping. Typical reverse current for lower voltage selections can be estimated from these same curves if V_R is sufficiently below rated V_R .



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

Date	Revision	Description of Changes
15-Apr-2008	0	Original Data Sheet
14-Sep-2016	1	Format update

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