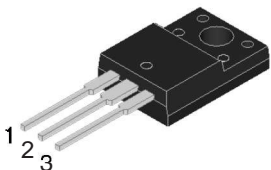
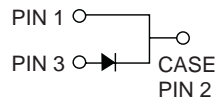


16.0 Amp. Switchmode Power Rectifiers

<h3 style="margin: 0;">ITO-220AB</h3>  <div style="text-align: center; margin-top: 10px;">  </div> <p>Dimensions in mm.</p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Voltage</td> <td style="text-align: center;">Current</td> </tr> <tr> <td style="text-align: center;">200 to 600 V</td> <td style="text-align: center;">16.0 A</td> </tr> </table> <ul style="list-style-type: none"> Ultrafast 35 and 60 Nanosecond Recovery times 175° C operating Junction Temperature Popular TO-220 Package Epoxy meets UL94, VO @ 1/8" High temperature glass passivated junction High voltage capability to 600 volts Low leakage specified @ 150 °C case temperature Current derating @ both case and ambient temperatures <p>Mechanical Data</p> <ul style="list-style-type: none"> Case: Epoxy, molded Lead temperature for soldering purposes: 260 °C Max. for 10 seconds Finish: all external surfaces corrosion resistant and terminal leads are readily solderable Shipped 50 units per plastic tube Weight: 1.9 grams (approximately) 	Voltage	Current	200 to 600 V	16.0 A
Voltage	Current				
200 to 600 V	16.0 A				

Absolute Maximum Ratings, according to IEC publication No. 134

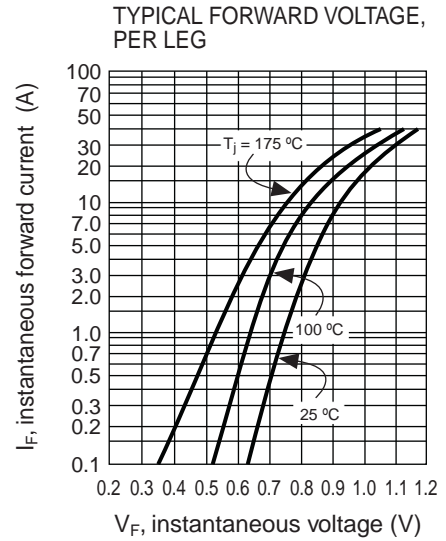
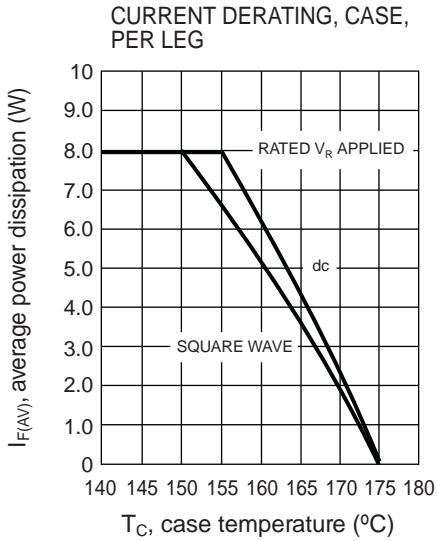
		FURF1620CT	FURF1640CT	FURF1660CT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	200 V	400 V	600 V
I _{F(AV)}	Average Rectified Forward Current Per Leg Total Device, (Rated V _R). T _C = 150 °C Total Device		8.0 A 16 A	
I _{FM}	Peak Rectified Forward Current (Rated V _R , Square Wave, 20 KHz), T _C = 150 °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 I _F = 0.5 A; I _R = 1 A; I _{RR} = 0.25 A	25 nS		50 nS
T _j -T _{stg}	Operating Junction Temperature and Storage Temperature	- 65 to + 175 °C		

Electrical Characteristics

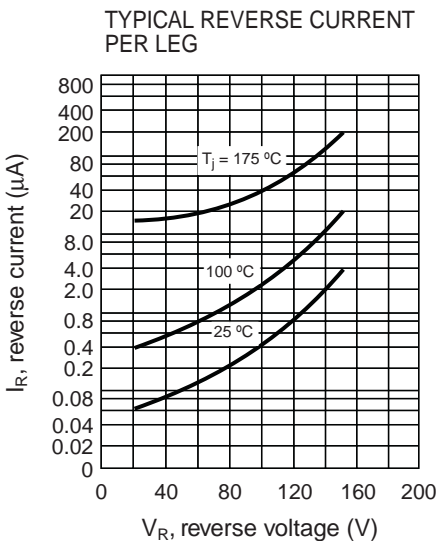
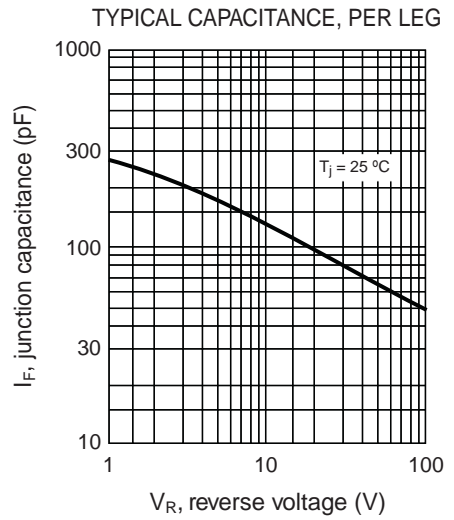
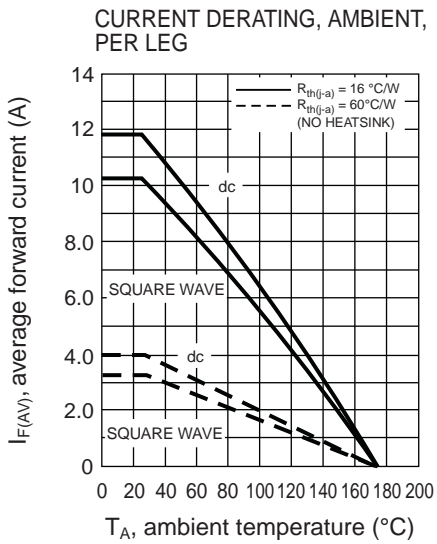
		FURF1620CT	FURF1640CT	FURF1660CT
V _F	Max. Instantaneous Forward Voltage (Note 1) (I _F = 8.0 Amps, T _C = 25 °C) (I _F = 8.0 Amps, T _C = 150 °C)	0.975 V 0.895 V	1.30 V 1.300 V	1.50 V 1.20 V
I _R	Maximum Instantaneous Reverse Current at Rated DC Blocking Voltage @ T _A = 25 °C @ T _A = 125 °C	5.0 μA 250 μA		10 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 ≤2.0%.

Rating And Characteristic Curves



*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. Switchmode Power Rectifiers

