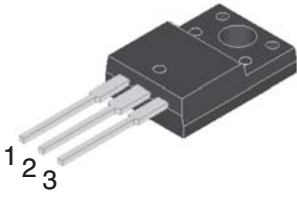
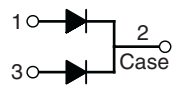




16.0 Amp. Fast Recovery Rectifiers

<h3 style="margin: 0;">ITO-220AB</h3>  <div style="text-align: center; margin-top: 20px;">  <p>Common Cathode Suffix "C"</p> </div>	Voltage 400 to 1000 V	Current 16.0 A	
	FEATURES <ul style="list-style-type: none"> Fast Switching for high efficiency Low power losses Low forward voltage drop High forward surge current capability Solder dip 260°C, 10s / 16" (4.06 mm) from case AEC-Q101 qualified 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 For use in fast switching rectification of power supply, inverters, converters, and freewheeling diodes for consumer, and telecommunication.		

Maximun Ratings and Electrical Characteristics at 25°C

		FRF1604G	FRF1605G	FRF1607G
V_{RRM}	Peak recurrent reverse voltage (V)	400	600	1000
V_{RMS}	Maximum RMS voltage (V)	280	420	700
V_{DC}	Maximum DC blocking voltage (V)	400	600	1000
$I_{F(AV)}$	Maximum average Forward current at $T_C = 105^\circ C$ (both diodes conducting)	16 A		
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	150 A		
t_{rr}	Max. reverse recovery time $I_F = 0.5 A ; I_R = 1 A ; I_{RR} = 0.25 A$	150 ns	250 ns	500 ns
C_j	Typical Junction Capacitance at 1 MHz and reverse voltaje of $4V_{DC}$	50 pF		
T_j	Operating temperature range	- 65 to + 150 °C		
T_{stg}	Storage temperature range	- 65 to + 150 °C		

Electrical Characteristics at Tamb = 25 °C

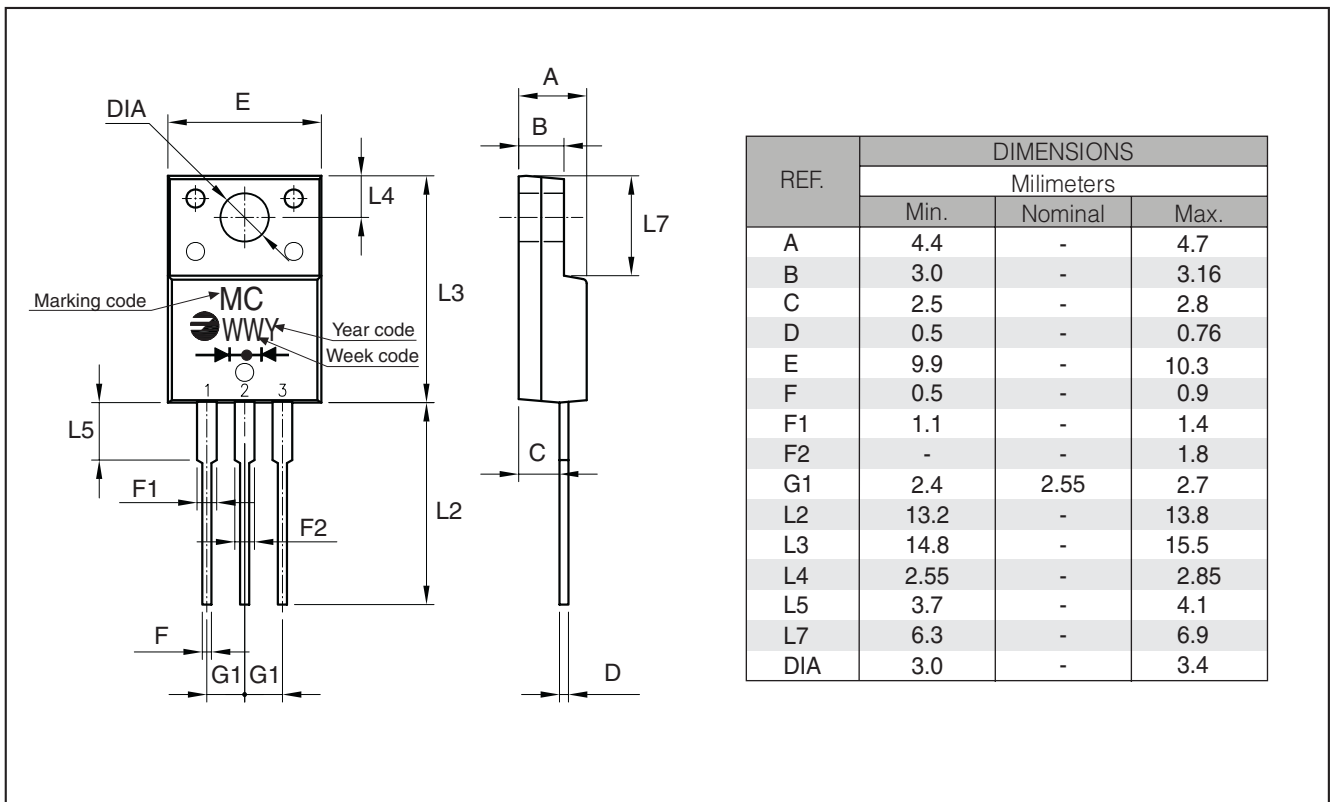
V_F	Max. forward voltage drop at $I_F = 8 A$ $T_j = 25^\circ C$	1.3 V
I_R	Max. Instantaneous reverse current at $V_R = V_{RRMax}$ $T_j = 25^\circ C$	5 μA
	$T_j = 125^\circ C$	100 μA
R_{thj-C}	Typical Thermal Resistance	5.0 °C/W

16.0 Amp. Fast Recovery Rectifiers

Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
FRF1605GC 00TUC	TU	TUBE	1,000	2.02

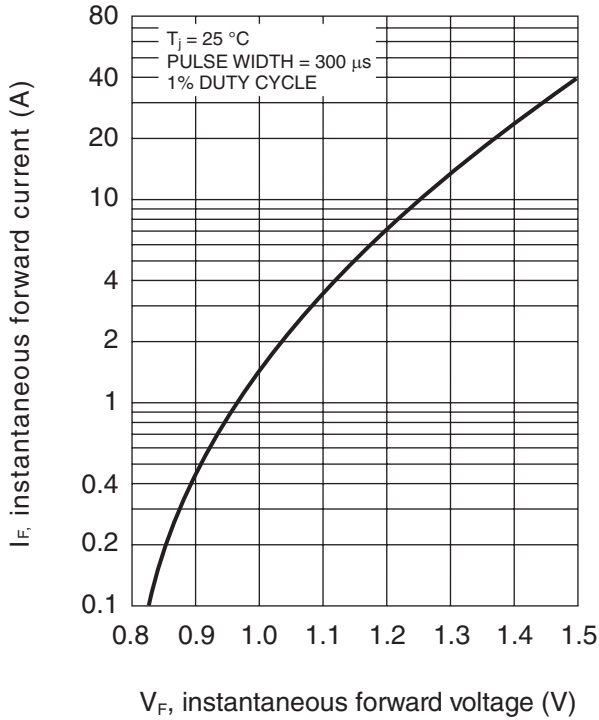
Package Outline Dimensions: (mm) ITO-220AB



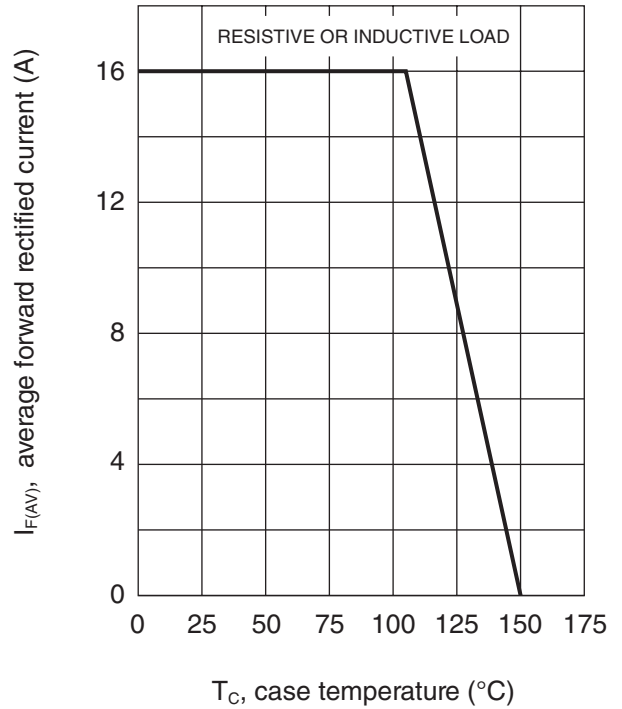
16.0 Amp. Fast Recovery Rectifiers

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

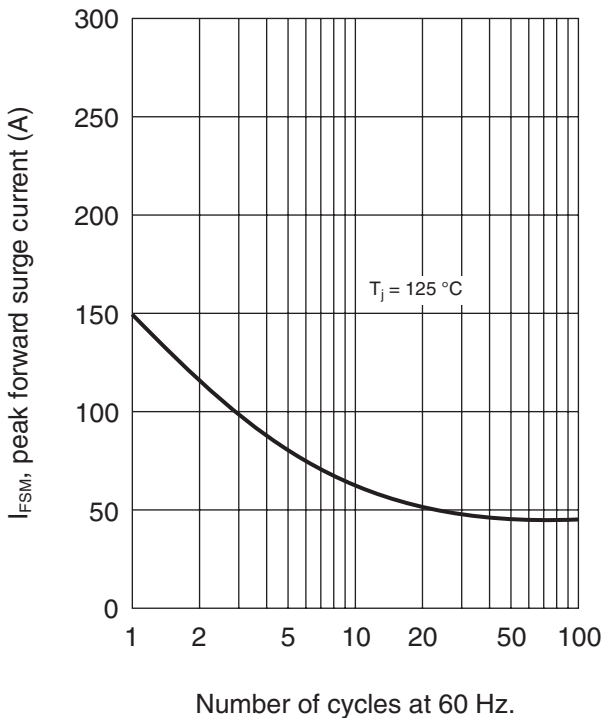
TYPICAL FORWARD CHARACTERISTIC



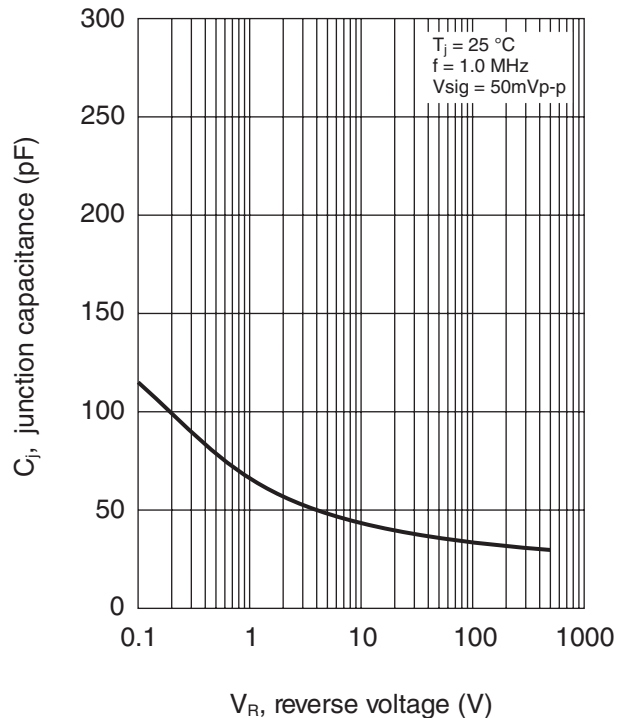
FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



16.0 Amp. Fast Recovery Rectifiers

Revision History

Date	Revision	Description of Changes
12-Mar-2007	0	Original Data Sheet
4-Nov-2016	1	Format update

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