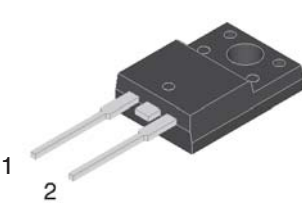
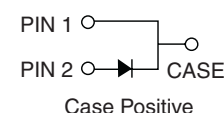




7.5 Amp. Schottky Barrier Rectifier

<p>ITO-220AC</p>  	<p>Voltage 45 to 150 V</p>	<p>Current 7.5 A</p>	
	<p>FEATURES</p> <ul style="list-style-type: none"> • Ideal for automated placement • Low power losses, high efficiency • High surge current capability • Guarding for overvoltage protection • Low forward voltage drop • Solder dip 260°C, 10s / 0.25" (6.35 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
	<p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: ITO-220AC. 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. 		
	<p>TYPICAL APPLICATIONS</p> <p>Used in low voltage high frequency inverters, freewheeling, dc-to-dc converters, and polarity protection applications.</p>		

Maximum Ratings and Electrical Characteristics at 25°C

		MBRF 745	MBRF 760	MBRF 7100	MBRF 7150
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	45	60	100	150
V_{RMS}	Maximum RMS Voltage (V)	31	42	70	105
V_{DC}	Maximum DC Blocking Voltage (V)	45	60	100	150
$I_{F(AV)}$	Maximum Average Forward Rectified Current See Fig.	7.5 A			
I_{FSM}	Peak Forward Surge Current, 8.3 ms Single Half sine-wave Superimposed on Rated Load (JEDEC Method)	150 A			
I_{RRM}	Peak Repetitive Reverse Surge Current (Note 1)	1.0 A	0.5 A		
T_j	Operating Junction Temperature Range	- 65 to + 150 °C			
T_{stg}	Storage Temperature Range	- 65 to + 175 °C			

Electrical Characteristics at Tamb = 25 °C

V_F	Maximum Instantaneous Forward Voltage at (Note 2)	$I_F = 7.5 \text{ A}, T_C = 25 \text{ °C}$	-	0.75 V	0.92 V	1.02 V
		$I_F = 7.5 \text{ A}, T_C = 125 \text{ °C}$	0.57 V	0.65 V	0.82 V	0.92 V
		$I_F = 15 \text{ A}, T_C = 25 \text{ °C}$	0.84 V	-	-	-
		$I_F = 15 \text{ A}, T_C = 125 \text{ °C}$	0.72 V	-	-	-
I_R	Max. Instantaneous Reverse Current @ $T_C=25\text{°C}$ at Rated DC Blocking Voltage (Note 1) @ $T_C=125\text{°C}$	@ $T_C=25\text{°C}$	0.1 mA	0.1 mA	0.1 mA	
		@ $T_C=125\text{°C}$	15 mA	10 mA	5.0 mA	
R_{thj-c}	Maximum Thermal Resistance (Note 3)	7.0 °C/W				

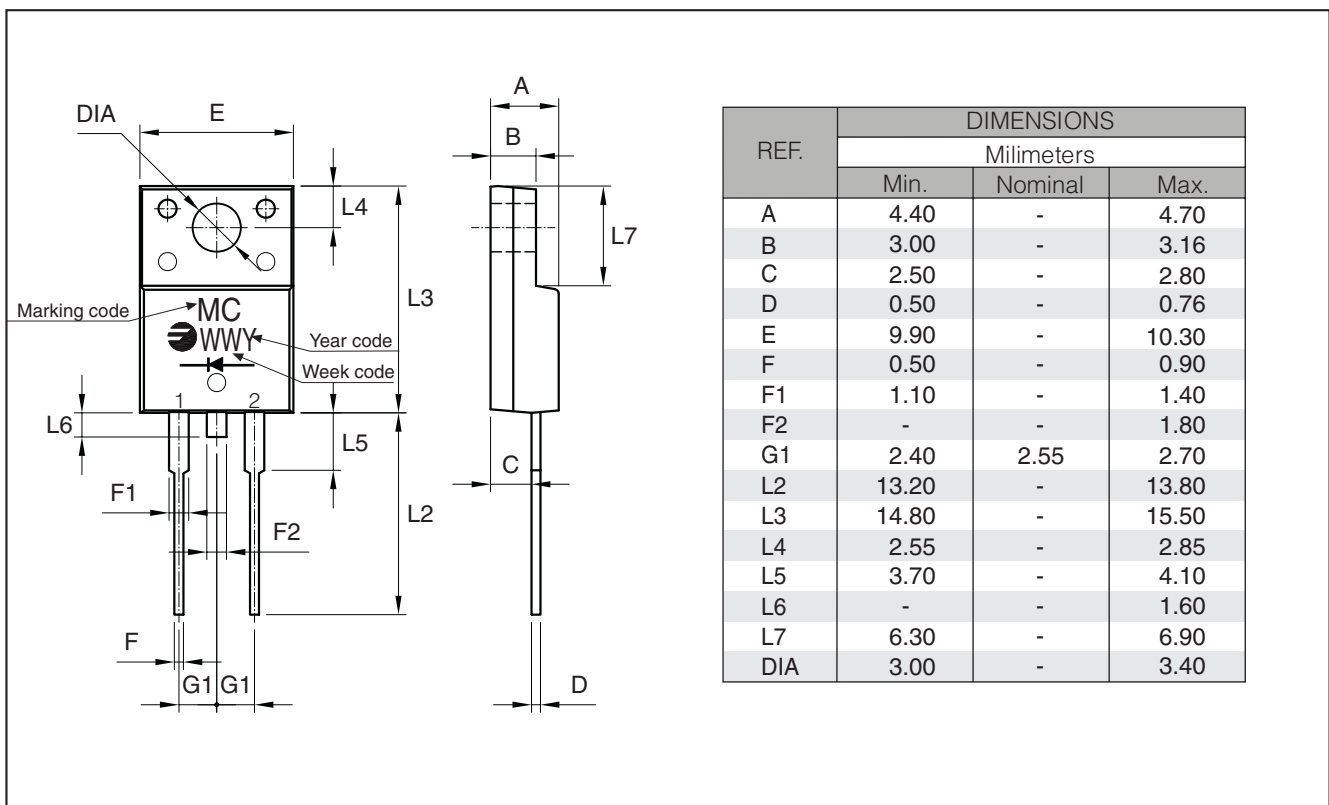
- Notes:
1. 2.0µs Pulse Width, f=1.0 KHz
 2. Pulse Test: 300µs Pulse Width, 1% Duty Cycle
 3. Mounted on Heatsink Size of 50.4 mm x 76.2 mm x 6.35 mm Al-Plate.

7.5 Amp. Schottky Barrier Rectifier

Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
MBRF760 00TUC	TU	TUBE	1,000	2.02

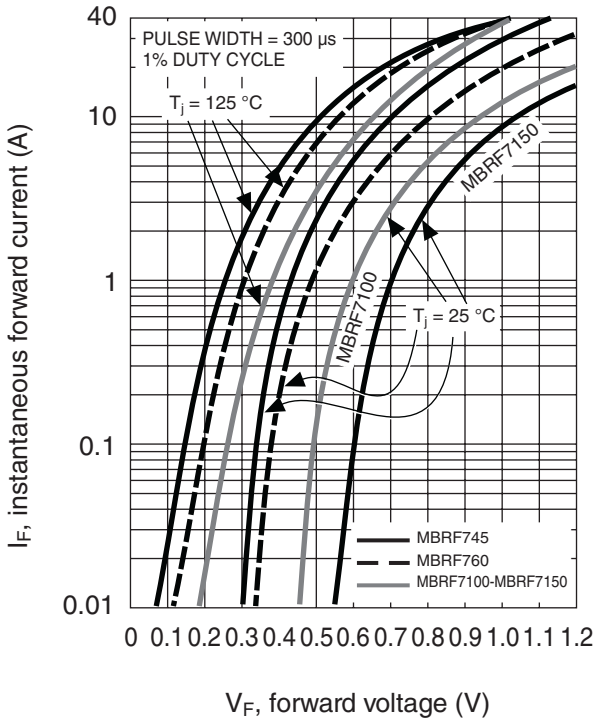
Package Outline Dimensions: (mm) ITO-220AC



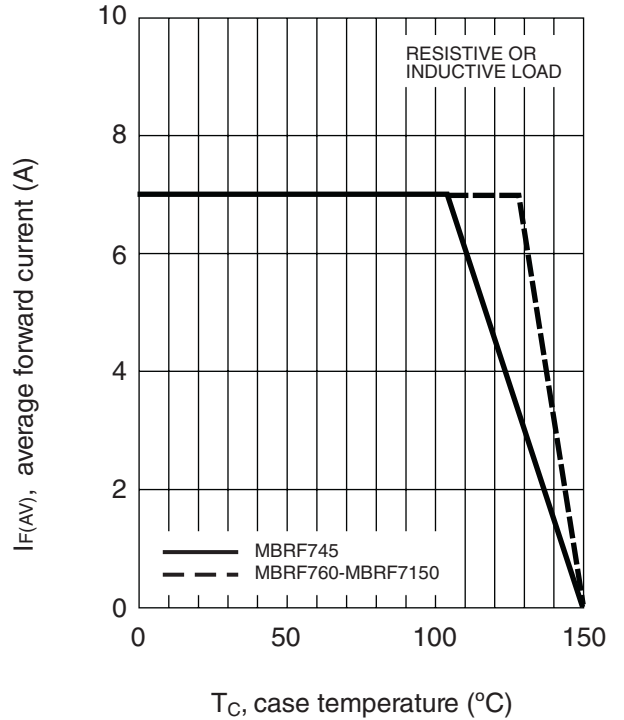
7.5 Amp. Schottky Barrier Rectifier

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

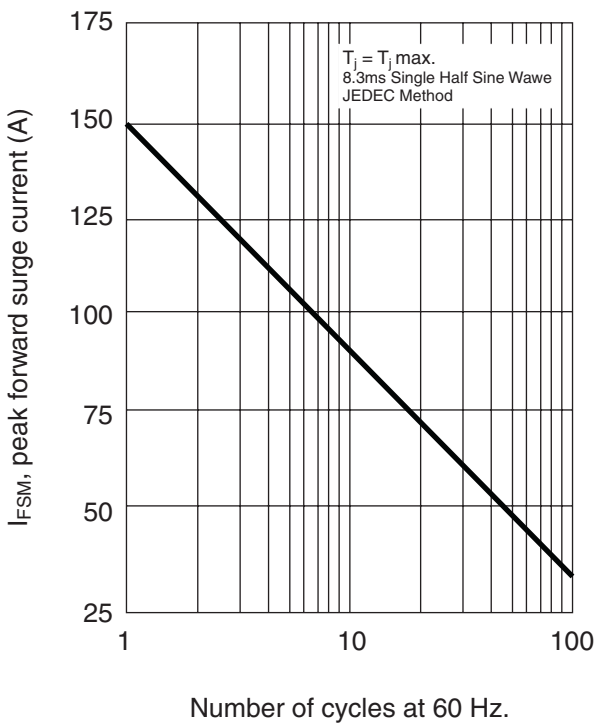
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



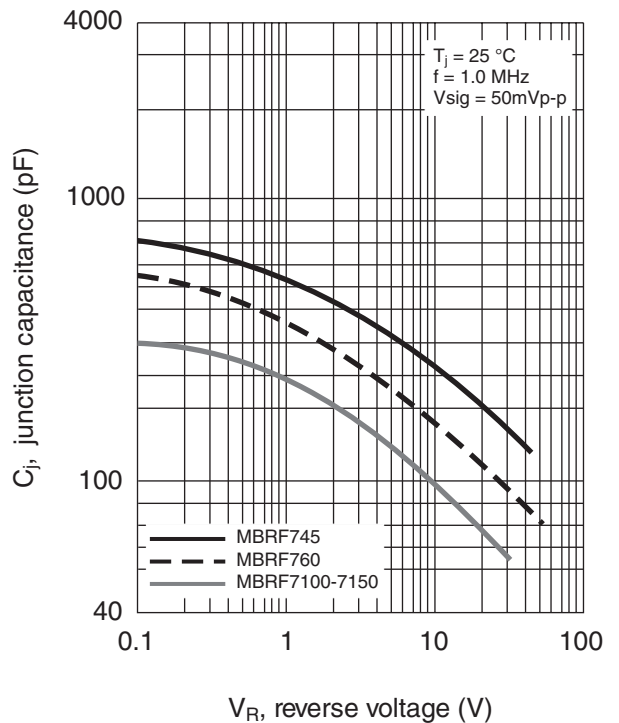
FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

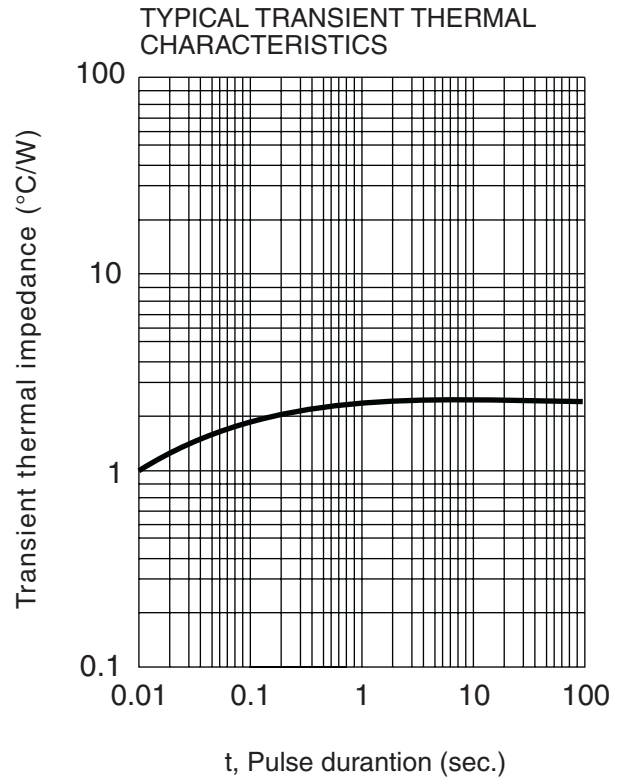
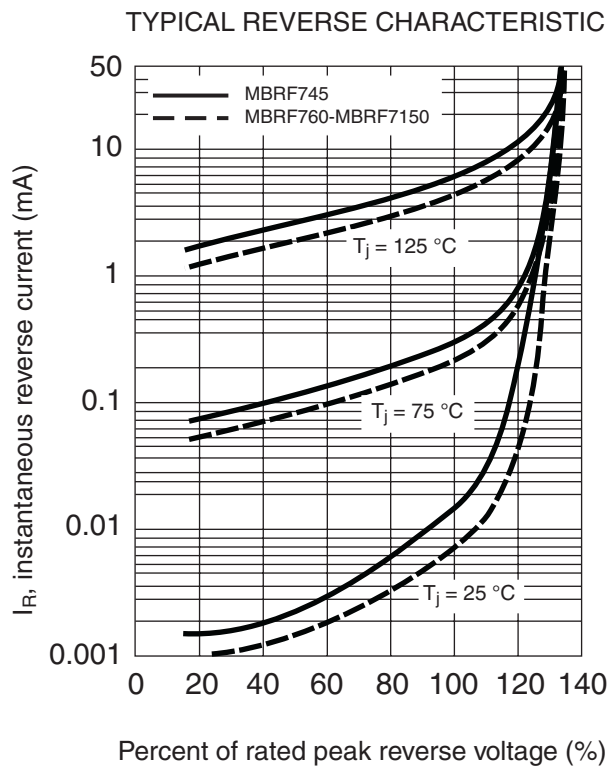


TYPICAL JUNCTION CAPACITANCE



7.5 Amp. Schottky Barrier Rectifier

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



7.5 Amp. Schottky Barrier Rectifier**Revision History**

Date	Revision	Description of Changes
14-Jul-2009	0	Original Data Sheet
30-Sep-2016	1	Format update

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