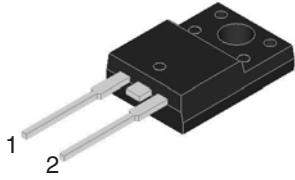
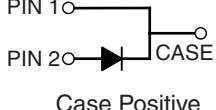


7.5 Amp. Schottky Barrier Rectifier

ITO-220AC	Voltage 45 to 150 V	Current 7.5 A
 	<ul style="list-style-type: none"> Plastic material used carries Underwriters Laboratory Classifications 94V-0 Metal silicon rectifier, majority carrier conduction Low power loss, high efficiency High current capability, low forward voltage drop High surge capability For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications Guardring for overvoltage protection High temperature soldering guaranteed: 260°C/10 seconds, 6.35mm from case 	
	Mechanical Data <ul style="list-style-type: none"> Cases: JEDEC ITO-220AC molded plastic body Terminals: Pure tin plated, lead free, solderable per MIL-STD-750, Method 2026 Polarity: As marked Mounting position: Any Mounting torque: 5 in. - lbs. max Weight: 2.24 grams 	

Absolute Maximum Ratings, according to IEC publication No. 134

		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	

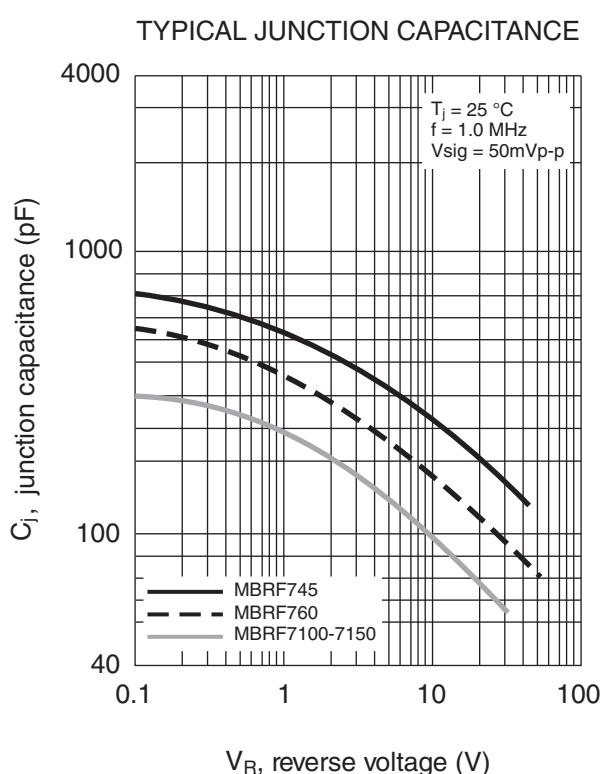
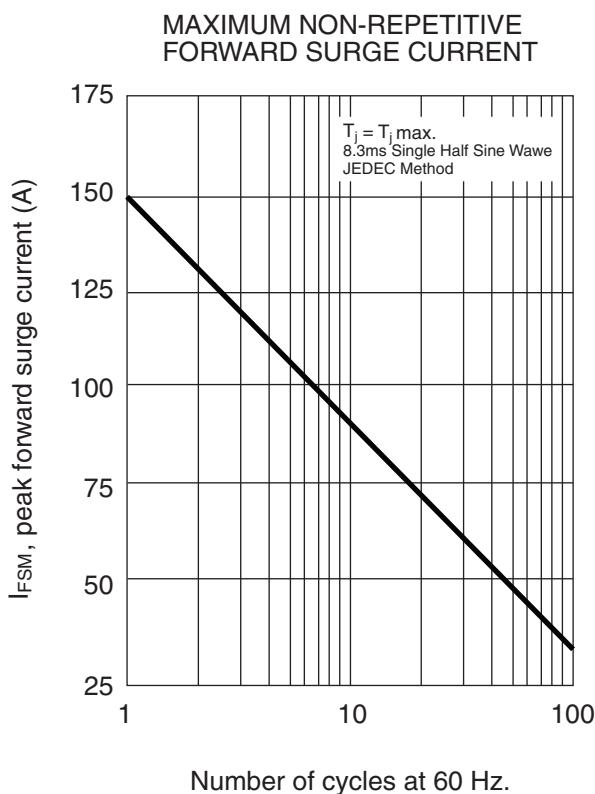
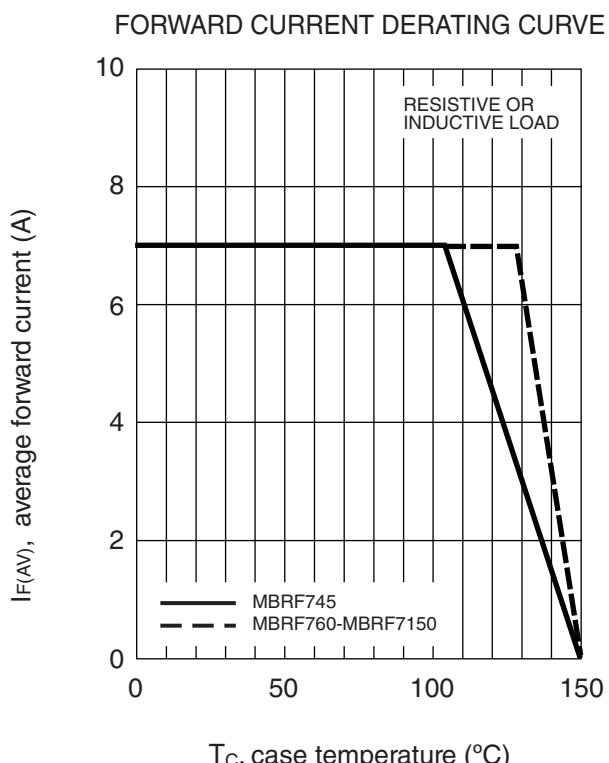
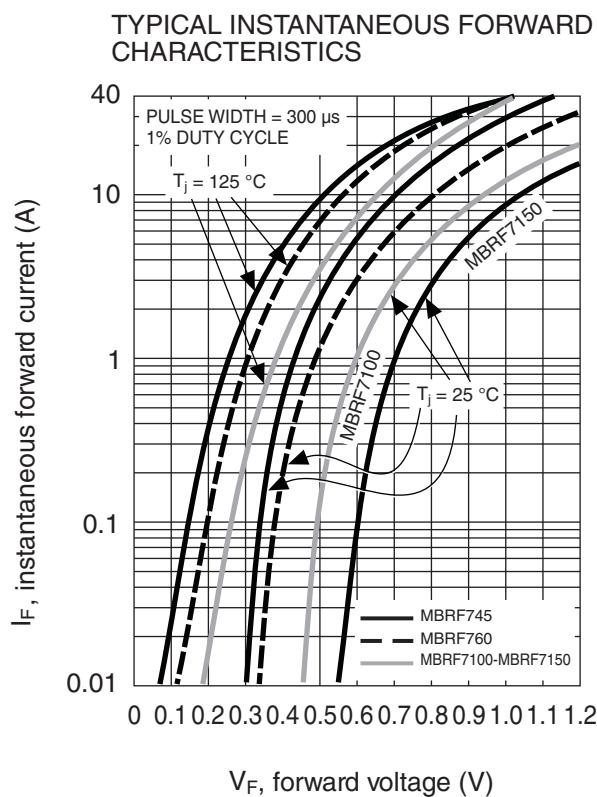
Electrical Characteristics

		MBRF 745	MBRF 760	MBRF 7100	MBRF 7150
V_F	Maximum Instantaneous Forward Voltage at (Note 2) $I_F = 7.5 \text{ A}, T_c = 25^\circ\text{C}$ $I_F = 7.5 \text{ A}, T_c = 125^\circ\text{C}$ $I_F = 15 \text{ A}, T_c = 25^\circ\text{C}$ $I_F = 15 \text{ A}, T_c = 125^\circ\text{C}$	– 0.57 V 0.84 V 0.72 V	0.75 V 0.65 V – –	0.92 V 0.82 V – –	1.02 V 0.92 V – –
I_R	Max. Instantaneous Reverse Current @ $T_c=25^\circ\text{C}$ at Rated DC Blocking Voltage (Note 1) @ $T_c=125^\circ\text{C}$	0.1 mA 15 mA	0.1 mA 10 mA		0.1 mA 5.0 mA
R_{thj-c}	Maximum Thermal Resistance (Note 3)			7.0 °C/W	

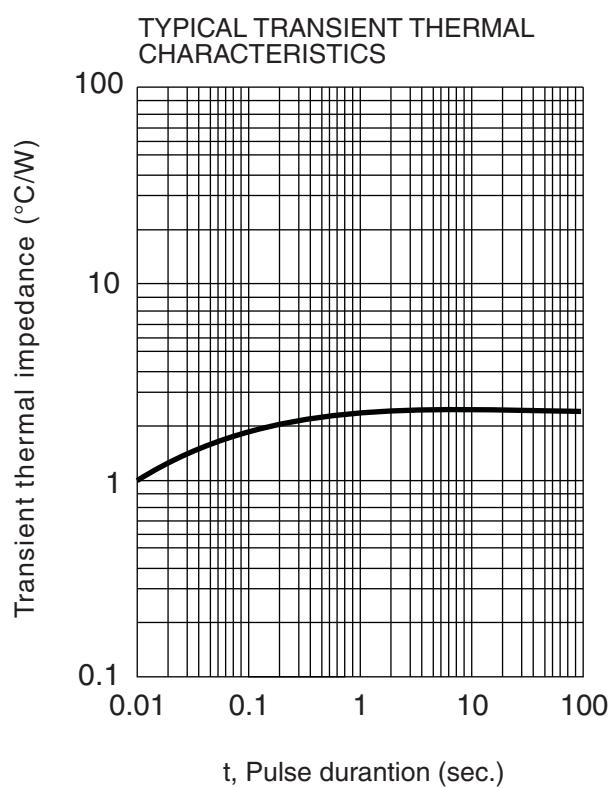
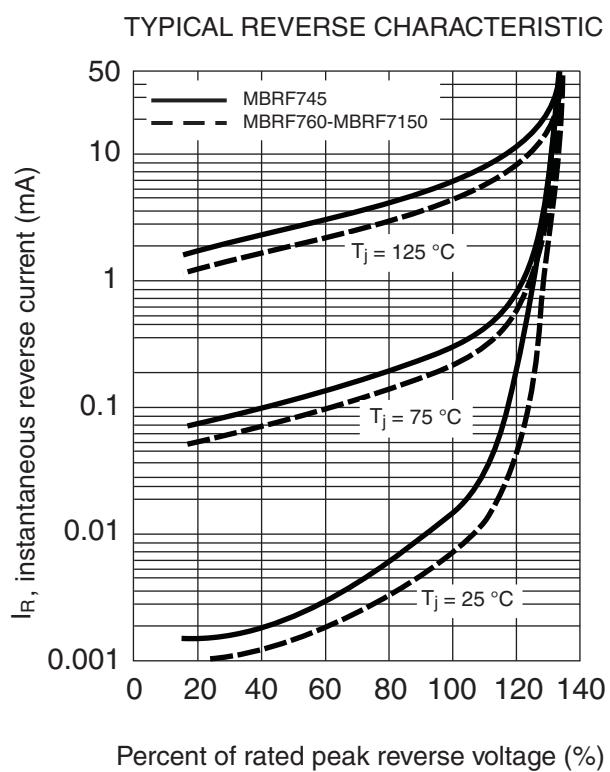
Notes:

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

Rating And Characteristic Curves

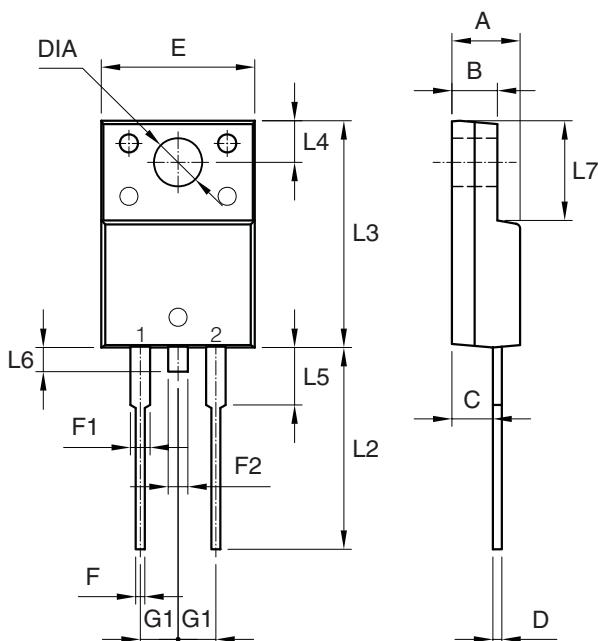


Rating And Characteristic Curves



PACKAGE MECHANICAL DATA

ITO-220AC



REF.	DIMENSIONS		
	Milimeters		
	Min.	Nominal	Max.
A	4.40	-	4.70
B	3.00	-	3.16
C	2.50	-	2.80
D	0.50	-	0.76
E	9.90	-	10.30
F	0.50	-	0.90
F1	1.10	-	1.40
F2	-	-	1.80
G1	2.40	2.55	2.70
L2	13.20	-	13.80
L3	14.80	-	15.50
L4	2.55	-	2.85
L5	3.70	-	4.10
L6	-	-	1.60
L7	6.30	-	6.90
DIA	3.00	-	3.40