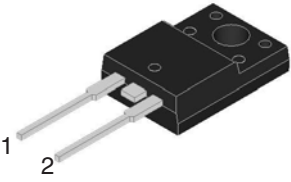
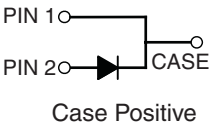


10 Amp. Schottky Barrier Rectifier

<p style="font-size: 1.2em; font-weight: bold;">ITO-220AC</p>  <div style="text-align: center; margin-top: 20px;">  <p style="font-size: 0.8em;">PIN 1 PIN 2 CASE Case Positive</p> </div>	<p style="font-weight: bold;">Voltage</p> <p>45 to 150 V</p> <p style="font-weight: bold;">Current</p> <p>10 A</p> <ul style="list-style-type: none"> Plastic material used carries Underwriters Laboratory Classifications 94V-0 Metal silicon junction, 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 <p style="font-weight: bold;">Mechanical Data</p> <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
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Absolute Maximum Ratings, according to IEC publication No. 134

		MBRF 1045	MBRF 1060	MBRF 10100	MBRF 10150
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 at $T_c = 125\text{ }^\circ\text{C}$	10 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			

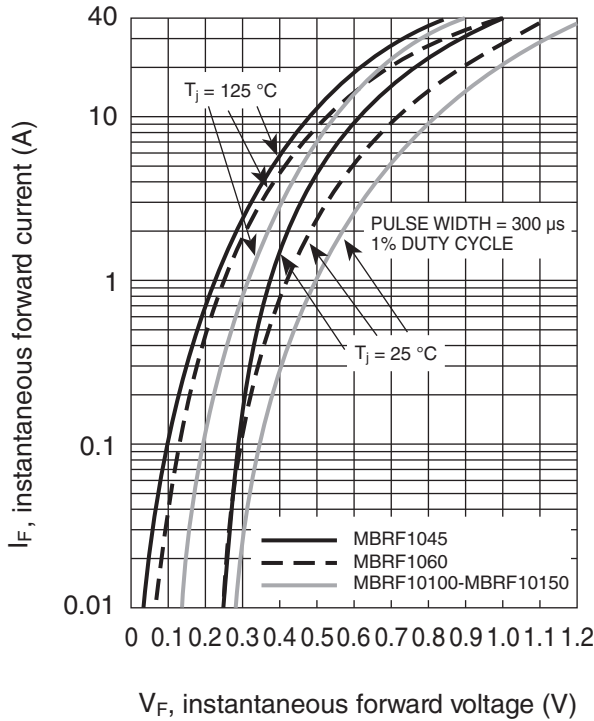
Electrical Characteristics

		MBRF 1045	MBRF 1060	MBRF 10100	MBRF 10150
V_F	Max. Instantaneous Forward Voltage $T_c = 25\text{ }^\circ\text{C}$ (Note 2) at $I_F = 10\text{ A}$	0.70 V	0.80 V	0.85 V	1.05 V
	Max. Instantaneous Forward Voltage $T_c = 125\text{ }^\circ\text{C}$ (Note 2) at $I_F = 10\text{ A}$	0.57 V	0.70 V	0.71 V	--
	Max. Instantaneous Forward Voltage $T_c = 25\text{ }^\circ\text{C}$ (Note 2) at $I_F = 20\text{ A}$	0.84 V	0.95 V	--	--
	Max. Instantaneous Forward Voltage $T_c = 125\text{ }^\circ\text{C}$ (Note 2) at $I_F = 20\text{ A}$	0.72 V	0.85 V	--	--
I_R	Max. Instantaneous Reverse Current at $T_c = 25\text{ }^\circ\text{C}$	0.10 mA		0.10 mA	
	Rated DC Blocking Voltage (Note 2) $T_c = 125\text{ }^\circ\text{C}$	15.0 mA	10.0 mA	6.0 mA	
R_{thj-c}	Maximun Typical Thermal Resistance (Note 3)	3.0 °C/W			

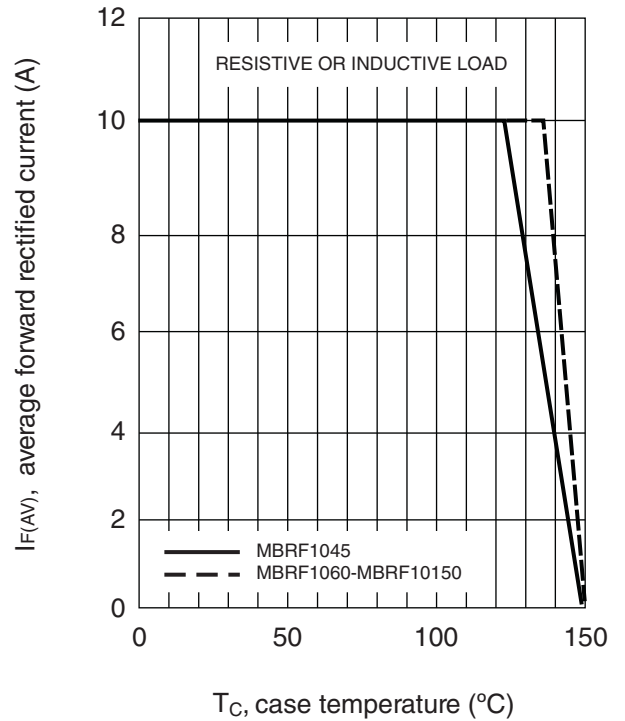
Notes: 1. 2.0µs Pulse Width, f=1.0 KHz
 2. Pulse Test: 300µs Pulse Width, 1% Duty Cycle
 3. Thermal Resistance from junction to Case Per Leg with Heatsink Size of 50.8 mm x 50.8 mm x 6.35 mm Al-Plate.

Rating And Characteristic Curves

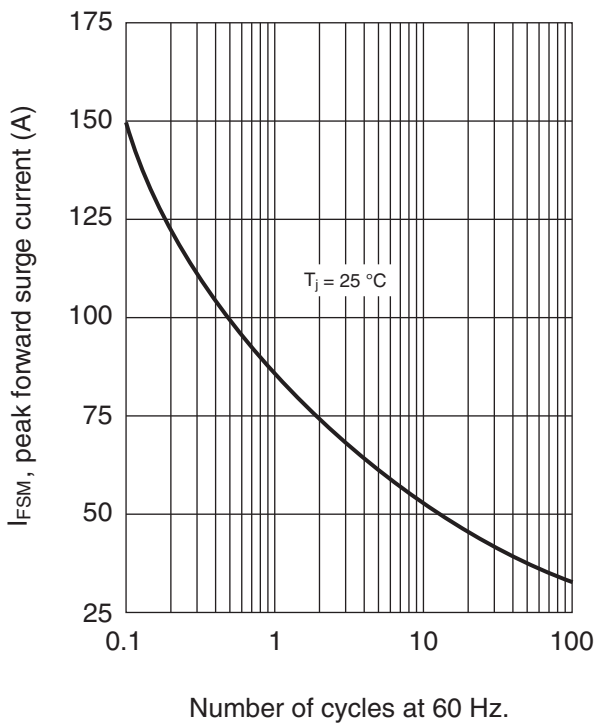
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



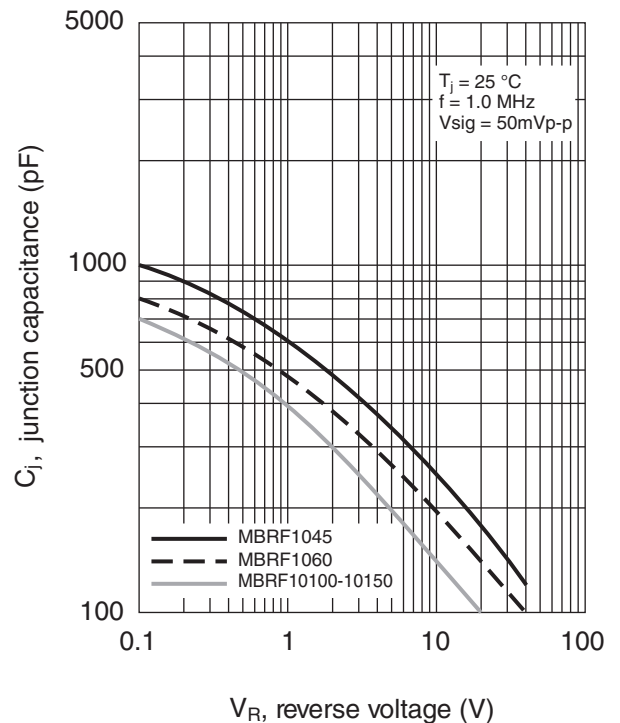
FORWARD CURRENT DERATING CURVE



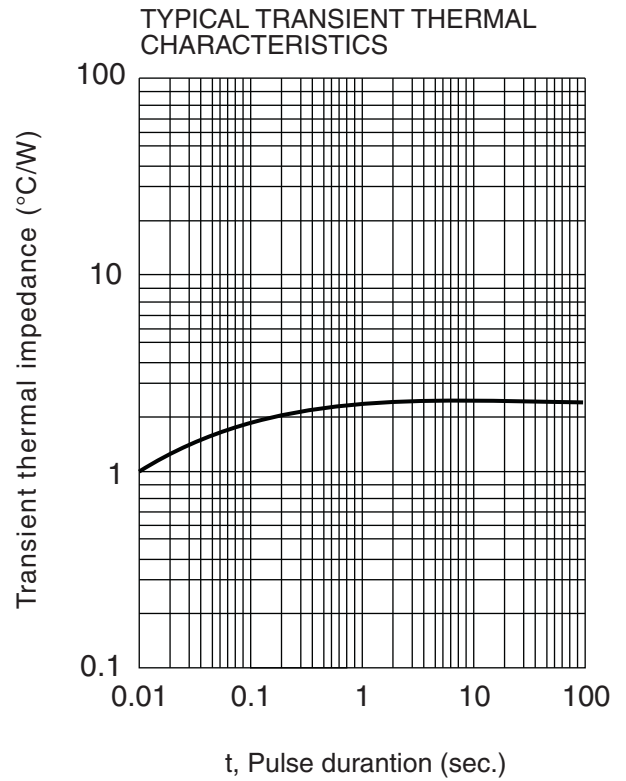
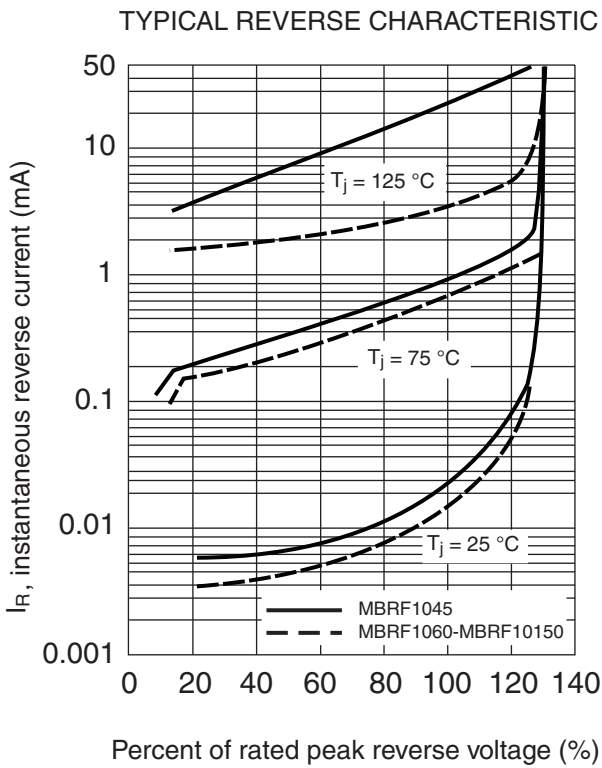
MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



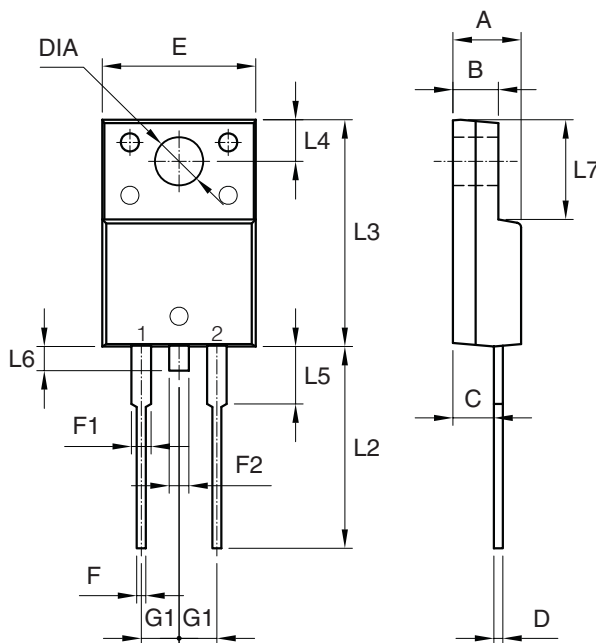
TYPICAL JUNCTION CAPACITANCE



Rating And Characteristic Curves



PACKAGE MECHANICAL DATA ITO-220AC



REF.	DIMENSIONS		
	Millimeters		
	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