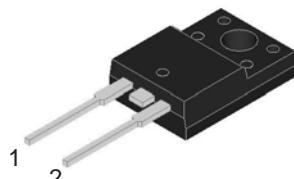
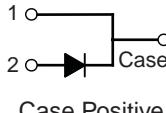


## 20 Amp. Schottky Barrier Rectifier

<b>ITO-220AC</b>  	<b>Voltage</b> 45 to 150 V	<b>Current</b> 20 A
<ul style="list-style-type: none"> <li>• Metal silicon junction, majority carrier conduction</li> <li>• High current capability</li> <li>• The plastic material carries U/L recognition 94 V-0</li> <li>• Terminals: Leads solderable per MIL-STD202</li> <li>• Low power loss, high efficiency</li> <li>• Low forward Voltage drop</li> </ul>		

### Absolute Maximum Ratings, according to IEC publication No. 134

		<b>MBRF2045</b>	<b>MBRF2060</b>	<b>MBRF20100</b>	<b>MBRF20150</b>			
$V_{RRM}$	Peak recurrent 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 current $T_c = 125^\circ C$	20 A						
$I_{FSM}$	8.3 ms. peak forward surge current (Jedec Method)	150 A						
$I_{RRM}$	Peak repetitive reverse surge current (Note 1)	1.0 A	0.5 A					
$T_j$	Operating temperature range	$-65 \text{ to } +150^\circ C$						
$T_{stg}$	Storage temperature range	$-65 \text{ to } +175^\circ C$						

### Electrical Characteristics

		<b>MBRF2045</b>	<b>MBRF2060</b>	<b>MBRF20100</b>	<b>MBRF20150</b>
$V_F$	Max. forward voltage drop at $I_F = 20 \text{ A}$ (Note 2)	$T_c = 25^\circ C$	0.75 V	0.82 V	0.95 V
		$T_c = 125^\circ C$	0.65 V	0.72 V	0.87 V
$I_R$	Max. Instantaneous reverse current at $V_R = V_{RRMax}$	$T_c = 25^\circ C$	0.20 mA		0.10 mA
		$T_c = 125^\circ C$	15.0 mA	10.0 mA	5.0 mA
$R_{thj-c}$	Typical Thermal Resistance (Note 3)	3.0 $^\circ C/W$			

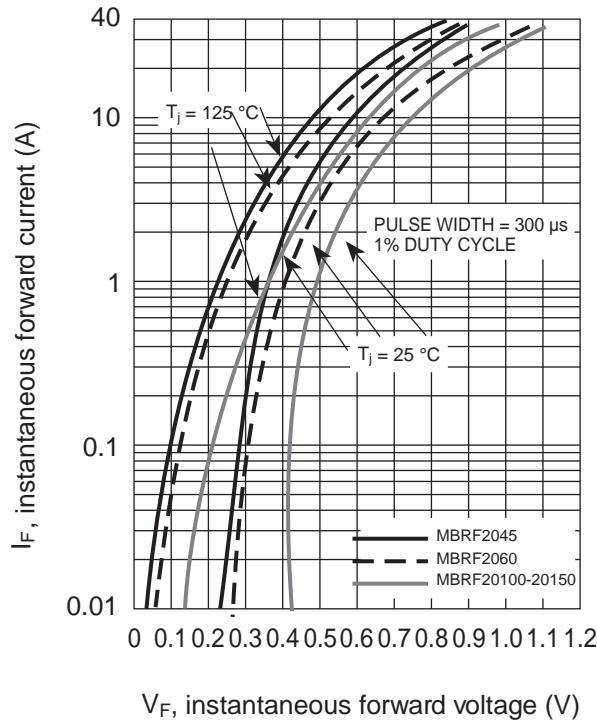
NOTES: 1. 2.0  $\mu\text{s}$  Pulse Width,  $f = 1.0 \text{ kHz}$

2. Pulse Test With PW = 300  $\mu\text{sec}$ , 1% Duty Cycle

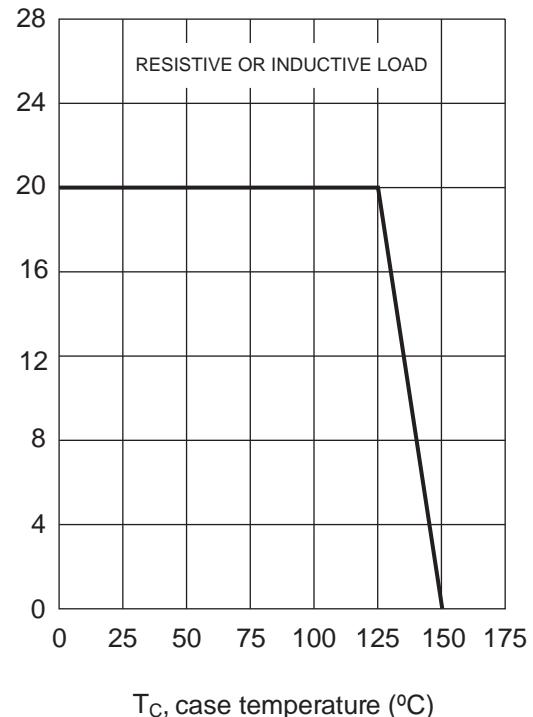
3. Mounted on Heatsink Size of 2 in x 3 in x 0.25 in Al-Plate.

## Rating And Characteristic Curves

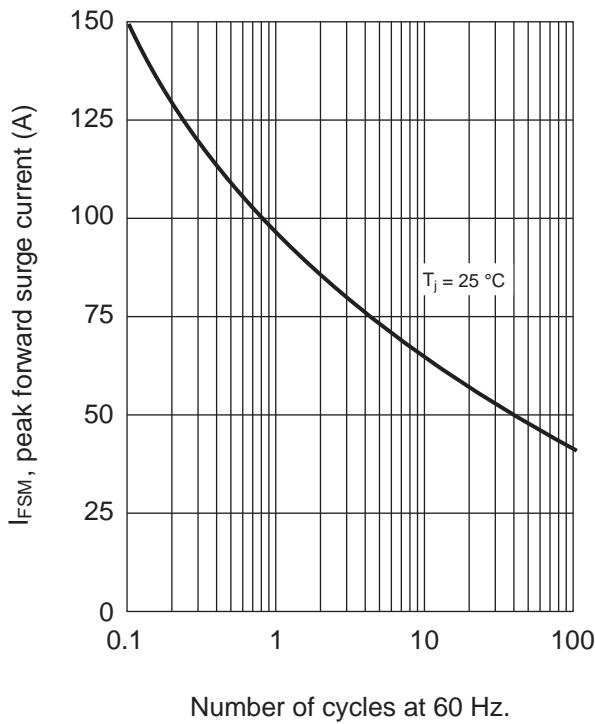
TYPICAL FORWARD CHARACTERISTIC



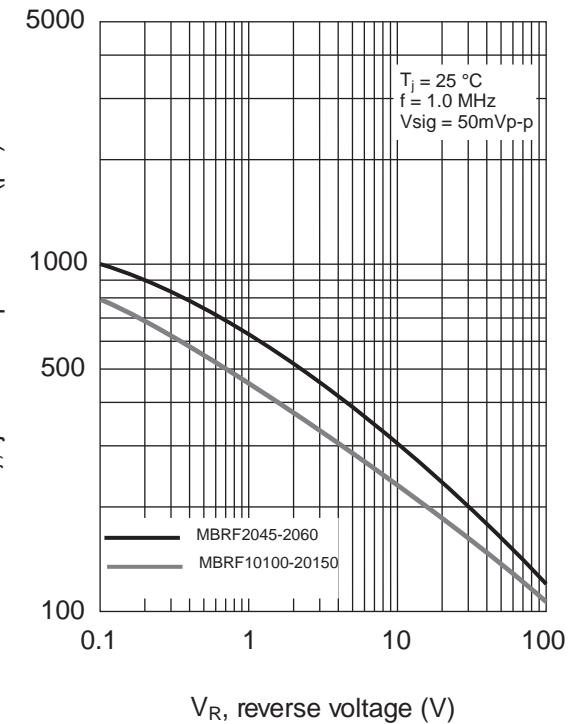
FORWARD CURRENT DERATING CURVE



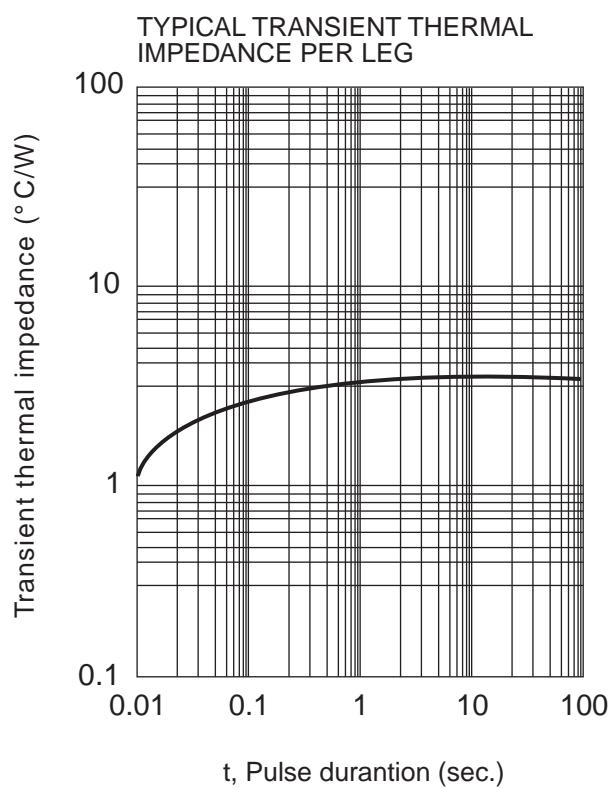
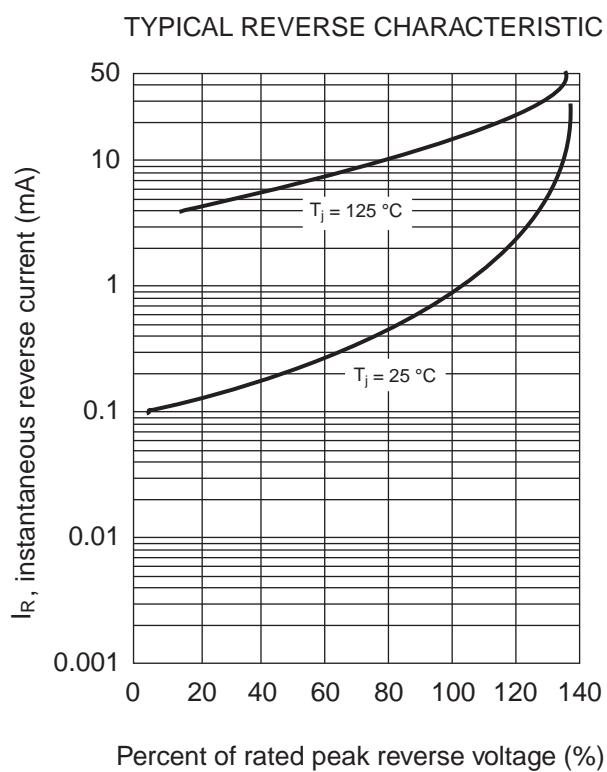
MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE

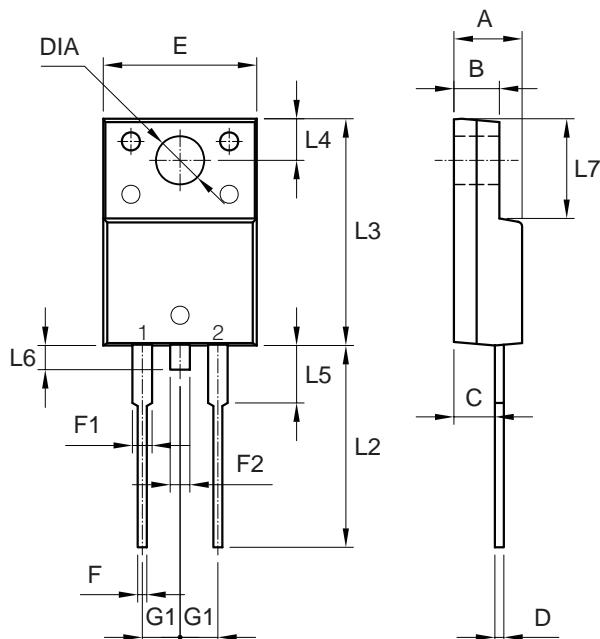


## Rating And Characteristic Curves



## PACKAGE MECHANICAL DATA

### ITO-220AC



REF.	DIMENSIONS		
	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