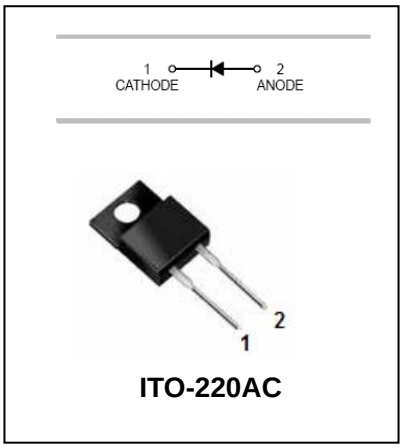
Schottky Barrier Rectifiers MBRF3030---MBRF30100

FEATURES

- High surge capacity.
- For use in low voltage,high frequency Inverters,free wheeling,and polarity protect-tion applications.
- Metal silicon junction,majority carrier conduction.
- High current capacity,lowforward voltage drop.
- Guard ring for over voltage protection.

Lead-free



ITO-220AC

MAXIMUM RATING operating temperature range applies unless otherwise specified

Symbol	Parameter	MBRF 3030	MBRF 3035	MBRF 3040	MBRF 3045	MBRF 3050	MBRF 3060	MBRF 3080	MBRF 30100	Unit
V_{RRM}	Recurrent Peak Reverse Voltage	30	35	40	45	50	60	80	100	V
V_{RMS}	RMS Voltage	21	25	28	32	35	42	56	70	V
V_{DC}	DC Blocking Voltage	30	35	40	45	50	60	80	100	V
$I_{F(AV)}$	Average Forward Total Device Rectified Current @T_A=100°C	30								A
I_{FSM}	Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on rated load	300								A
$R_{\theta JC}$	Thermal Resistance(Note1)	4.4								℃/W
T_j T_{stg}	Operating Junction and StorageTem-perature Range	-55 to +150								℃

Note:1.Thermal resistance from junction to case.

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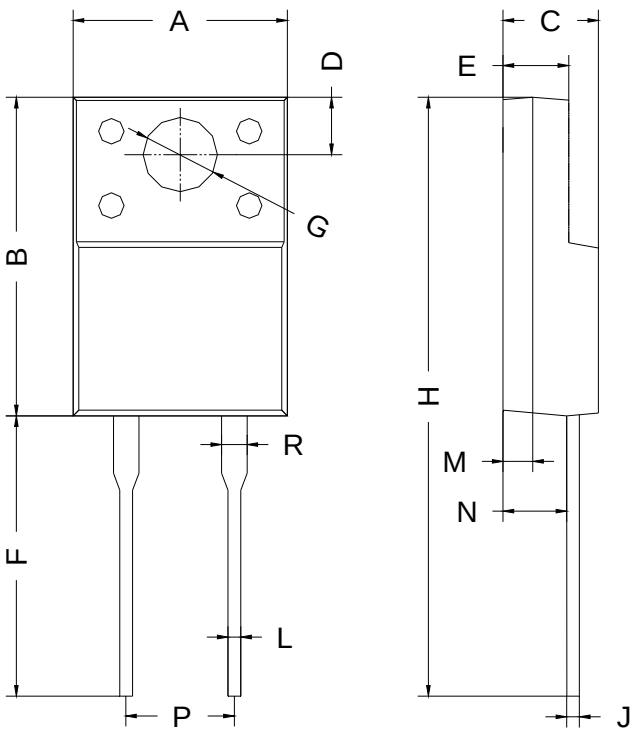
ELECTRICAL CHARACTERISTICS@ Ta=25℃ unless otherwise specified

Parameter	Symbol	Test conditions	MBRF3030-MBRF3045	MBRF3050-MBRF3060	MBRF3080-MBRF30100	UNIT
			MAX			
Reverse Current	I_R	$V_R=V_{RRM}, T_A=25℃$ $V_R=V_{RRM}, T_A=125℃$	0.1 15	0.1 25	0.1 50	mA
Forward Voltage	V_F (Note1)	$I_F=30A, T_A=25℃$ $I_F=30A, T_A=125℃$	0.70 0.57	0.8 0.7	0.85 0.65	V

Note:1.Pulse test:300μs width,1% duty cycle

PACKAGE OUTLINE

Plastic surface mounted package ITO-220AC



ITO-220AC		
Dim	Min	Max
A	9.90	10.30
B	14.80	15.20
C	4.50 Typical	
D	2.70 Typical	
E	2.80	3.20
F	13.00	13.40
G	3.2 Typical	
H	28.00	28.40
J	0.60 Typical	
L	0.50	0.75
M	1.40 Typical	
N	2.90	3.10
P	5.00	5.20
R	1.20 Typical	
All Dimensions in mm		