

Schottky Barrier Rectifiers

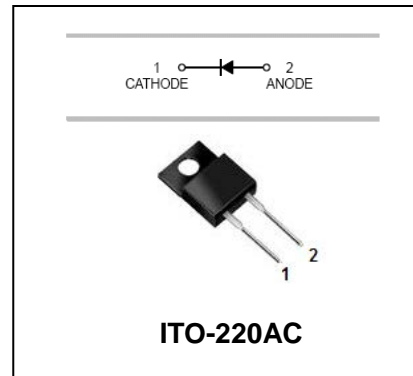
MBRF830-MBRF8100

FEATURES

- High Surge Capacity.
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications.
- Metal Silicon Junction, Majority Carrier Conduction.
- High Current Capacity, Low forward Voltage Drop.
- Guard Ring for Over Voltage Protection.



Lead-free



Ordering Information

Part Number	Package	Shipping	Marking Code
MBRF830□	ITO-220AC	50/Tube	MBRF830
MBRF835□	ITO-220AC	50/Tube	MBRF835
MBRF840□	ITO-220AC	50/Tube	MBRF840
MBRF845□	ITO-220AC	50/Tube	MBRF845
MBRF850□	ITO-220AC	50/Tube	MBRF850
MBRF860□	ITO-220AC	50/Tube	MBRF860
MBRF880□	ITO-220AC	50/Tube	MBRF880
MBRF8100□	ITO-220AC	50/Tube	MBRF8100

□: none is for Lead Free package;

“G” is for Halogen Free package

MAXIMUM RATING operating temperature range applies unless otherwise specified

Symbol	Parameter	MBRF 830	MBRF 835	MBRF 840	MBRF 845	MBRF 850	MBRF 860	MBRF 880	MBRF 8100	Unit
V_{RRM}	Repetitive 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 Rectified Current	8								A
I_{FSM}	Peak Forward Surge Current 8.3ms Single Half-sine-wave superimposed on Rsted Load	150								A
$R_{\theta JC}$	Maximum Thermal Resistance(Note1)	3.0								°C/w
$T_j T_{stg}$	Operating Junction and Storage Temperature Range	-55 to +150								°C

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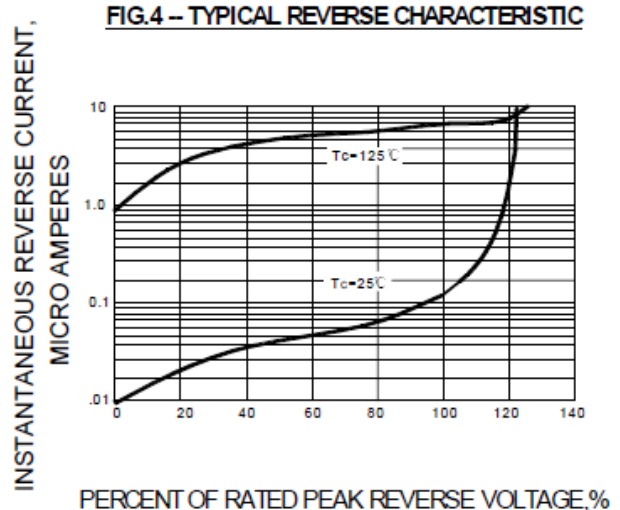
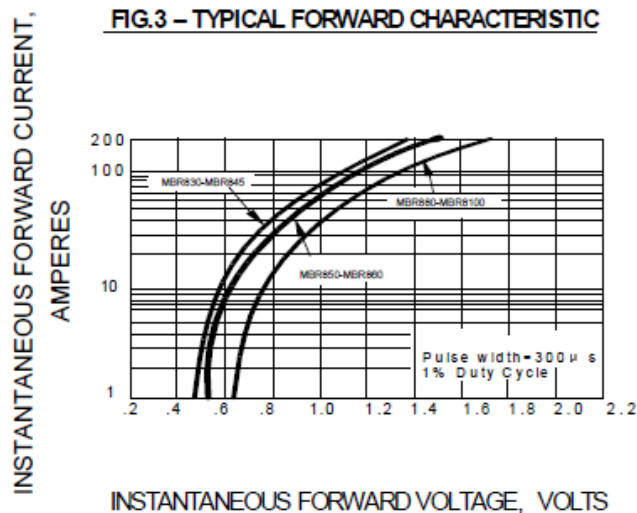
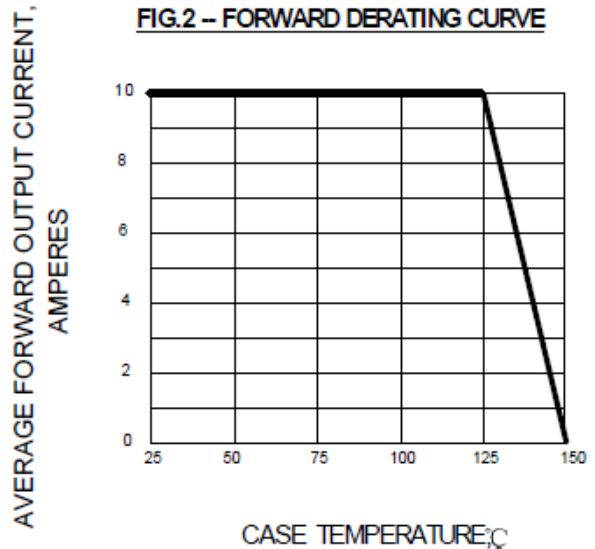
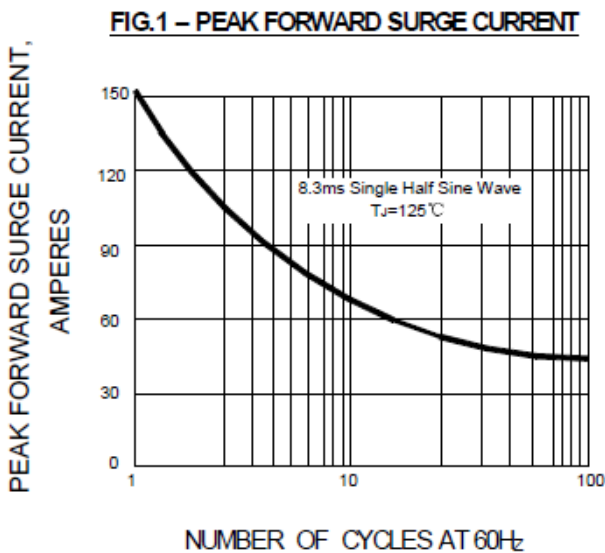
Note:1. Thermal resistance from junction to case.

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified.

Parameter	Symbol	Test conditions	MBRF830- MBRF845	MBRF850- MBRF860	MBRF880- MBRF8100	UNIT
			MAX			
Reverse Current	I _R	V _R =V _{RRM} , T _A =25°C	0.1			mA
		V _R =V _{RRM} , T _A =125°C	15	25	50	
Forward Voltage	V _F (Note1)	I _F =8A, T _C =25°C	0.70	0.80	0.85	V

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

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified.



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PACKAGE OUTLINE

Plastic surface mounted package

ITO-220AC

