

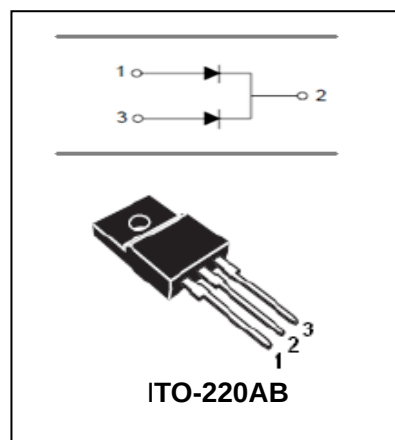
Schottky Barrier Rectifiers MBRF30150CT---MBRF30200CT

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,lowforward voltage drop.
- Guard ring for over voltage protection.



Lead-free



MAXIMUM RATING operating temperature range applies unless otherwise specified

Symbol	Parameter	MBRF30150CT	MBRF30200CT	Unit
V_{RRM}	Recurrent Peak Reverse Voltage	150	200	V
V_{RMS}	RMS Voltage	105	140	V
V_{DC}	DC Blocking Voltage	150	200	V
$I_{F(AV)}$	Average Forward Total Device Rectified Current @ $T_A = 100^\circ\text{C}$	30		A
I_{FSM}	Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on rated load	200		A
$R_{\theta JC}$	Thermal Resistance(Note1)	4.4		$^\circ\text{C}/\text{W}$
T_j T_{stg}	Operating Junction and Storage Temperature Range	-55 to +150		$^\circ\text{C}$

Note:1. Thermal resistance from junction to case.

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ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Test conditions	MBRF30150CT	MBRF30200CT	UNIT
			MAX		
Reverse Current	I _R	V _R =V _{RRM} , T _A =25°C V _R =V _{RRM} , T _A =125°C	0.1 50		mA
Forward Voltage	V _F (Note1)	I _F =15A ,T _A =25°C	0.90	0.95	V

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

TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

FIG.1 – PEAK FORWARD SURGE CURRENT

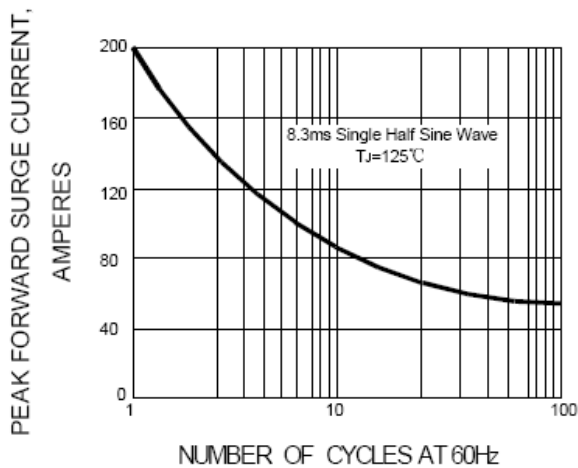


FIG.2 – FORWARD DERATING CURVE

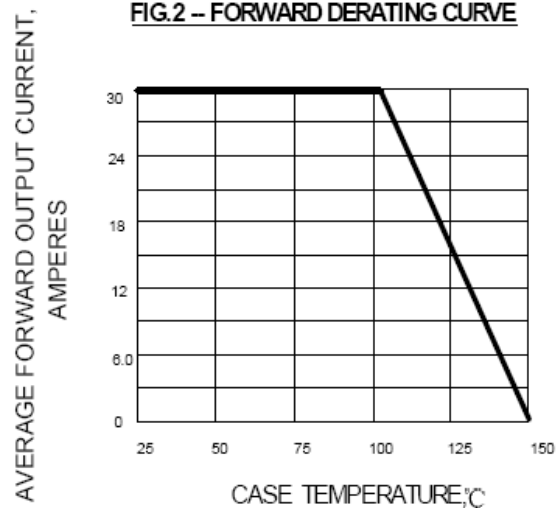


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

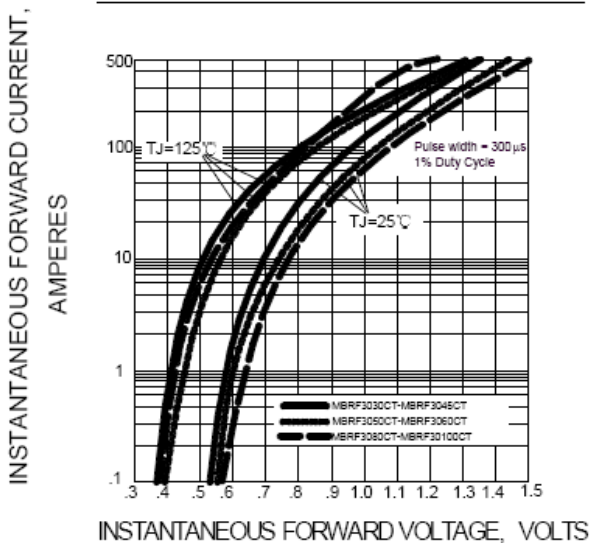
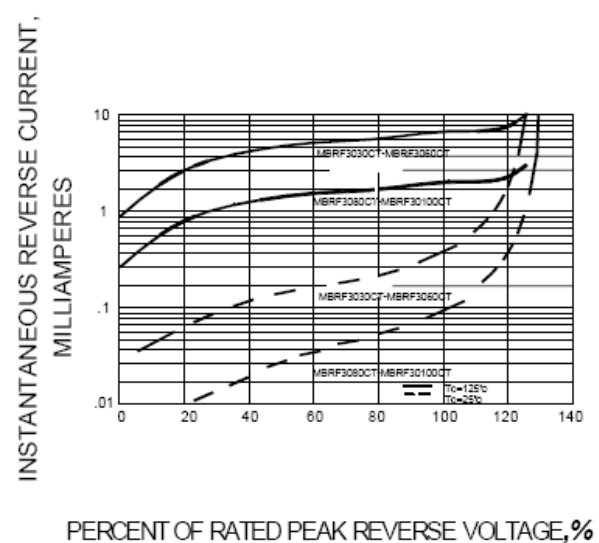


FIG.4 – TYPICAL REVERSE CHARACTERISTIC



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PACKAGE OUTLINE

Plastic surface mounted package

ITO-220AB

