

Dual Schottky Rectifiers

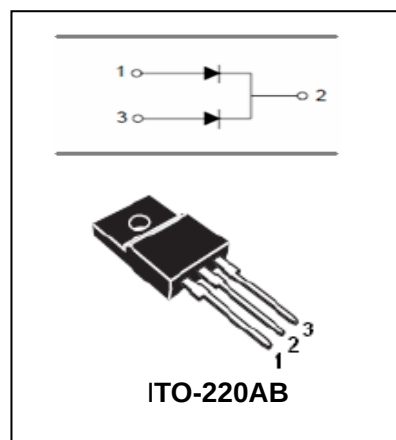
MBRF16150CT---MBRF16200CT

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	MBRF16150CT	MBRF16200CT	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 @ $T_A = 100^\circ\text{C}$	16		A
I_{FSM}	Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on rated load	150		A
$R_{\theta JC}$	Thermal Resistance (Note1)	1.5		$^\circ\text{C}/\text{W}$
T_j	Operating Junction Temperature Range	-55 to +150		$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55 to +175		$^\circ\text{C}$

Note:1.Thermal resistance from junction to case and thermal resistance from junction to ambient.



Dual Schottky Rectifiers

MBRF16150CT---MBRF16200CT

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

Parameter	Symbol	Test conditions	MBRF16150CT	MBRF16200CT	UNIT
			MAX		
Reverse Current	I _R	V _R =V _{RRM} , T _A =25℃ V _R =V _{RRM} , T _A =125℃	0.1 50		mA
Forward Voltage	V _F (Note1)	I _F =8A ,T _A =25℃	0.90	0.95	V

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

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

FIG.1 – FORWARD CURRENT DERATING CURVE

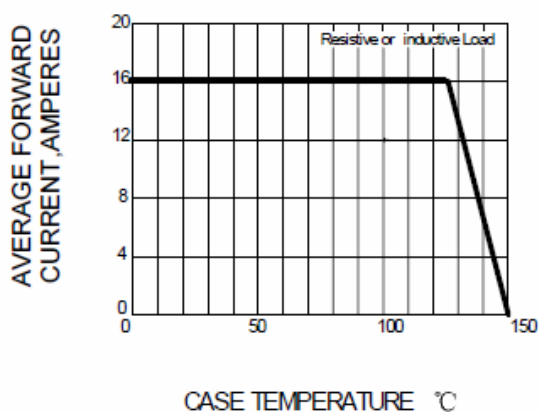


FIG.2 – MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

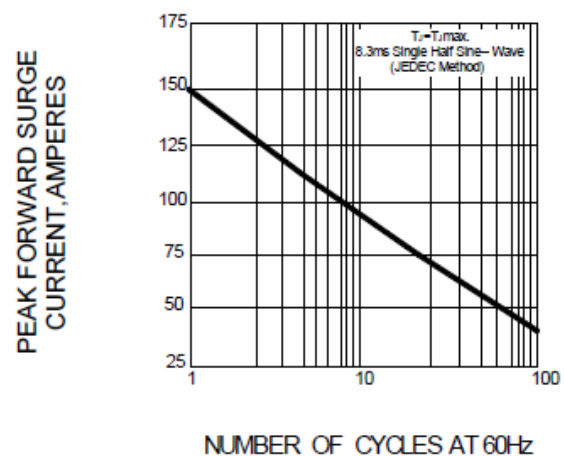


FIG.3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC PER LEG

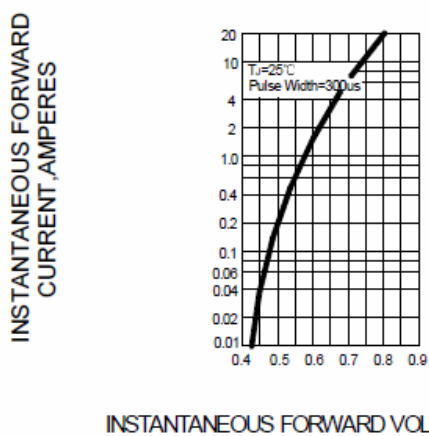
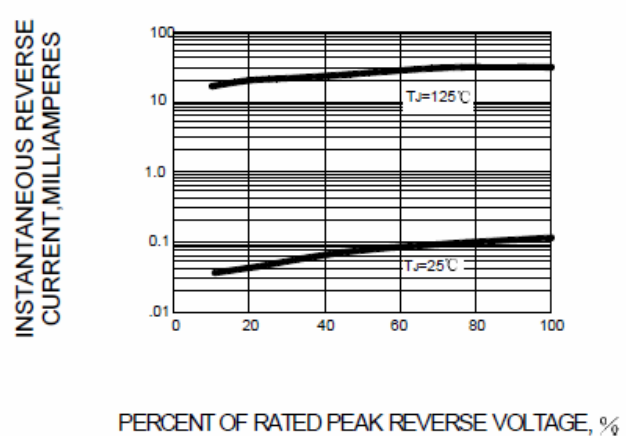


FIG.4 – TYPICAL REVERSE CHARACTERISTICS



Dual Schottky Rectifiers

MBRF16150CT---MBRF16200CT

PACKAGE OUTLINE

Plastic surface mounted package

ITO-220AB

