

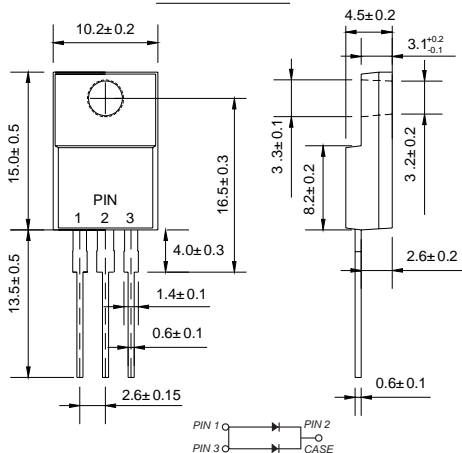


MBRF101500CT THRU MBRF10200CT

SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 150 to 200 Volts Forward Current - 10.0 Amperes

ITO-220AB



Dimensions in inches and (millimeters)

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 capability, low forward voltage drop.
- ◆ Guard ring for over voltage protection.

MECHANICAL DATA

Case: ITO-220AB molded plastic body
Terminals: Leads solderable per MIL-STD-750, Method 2026
Polarity: As marked
Mounting Position: Any
Weight: 0.060 ounce, 1.67 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
 Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

MDD Catalog Number	SYMBOLS	MBRF10150CT	MBRF10200CT	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	150	200	VOLTS
Maximum RMS voltage	V_{RMS}	135	140	VOLTS
Maximum DC blocking voltage	V_{DC}	150	200	VOLTS
Maximum average forward rectified current (see fig.1)	$I_{(AV)}$	10.0		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	125.0		Amps
Maximum instantaneous forward voltage at 5.0A	V_F	0.95		Volts
Maximum DC reverse current at rated DC blocking voltage	I_R	0.1		mA
$T_A=25^{\circ}C$ $T_A=100^{\circ}C$		15.0		
Maximum thermal resistance(NOTE 1)	$R_{\theta JC}$	1.5		$^{\circ}C/W$
Operating junction temperature range	T_J	-55 to +150		$^{\circ}C$
Storage temperature range	T_{STG}	-55 to +150		$^{\circ}C$

Note: 1. Thermal resistance from junction to case



www.microworld.com

RATINGS AND CHARACTERISTIC CURVES MBRF10150CT THRU MBRF10200CT

FIG.1 TYPICAL FORWARD CHARACTERISTICS

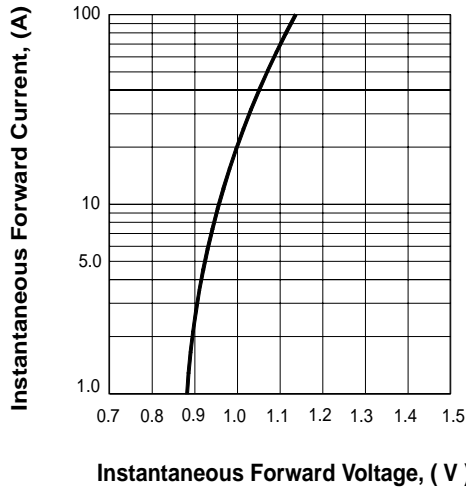


FIG.2 FORWARD DERATING CURVE

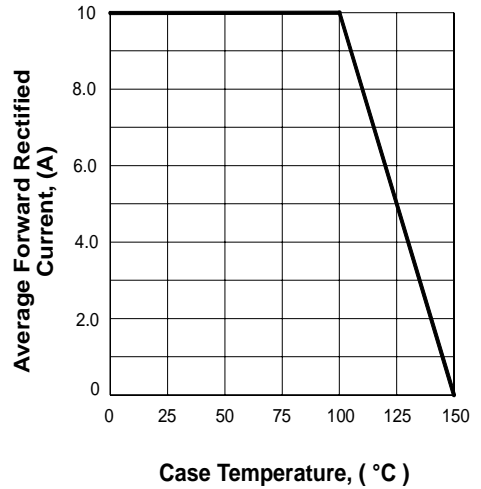


FIG.3 TYPICAL REVERSE CHARACTERISTICS

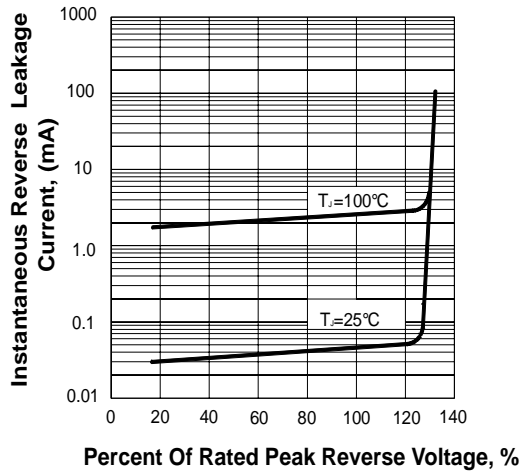
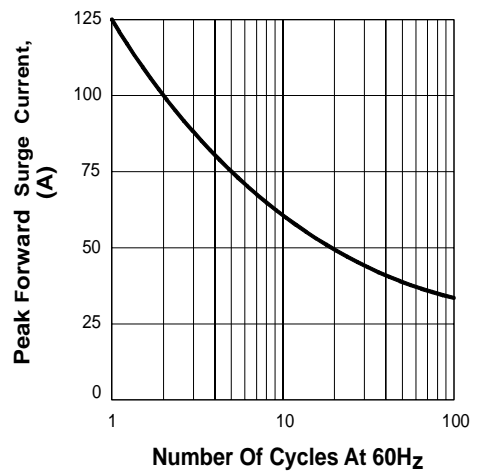


FIG.4 PEAK FORWARD SURGE CURRENT



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

