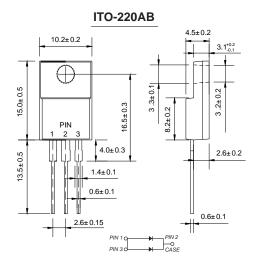


MBRF201500CT THRU MBRF20200CT

SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 150 to 200 Volts Forward Current -20.0 Amperes



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	MBRF20150CT	MBRF20200CT	UNITS
Maximum repetitive peak reverse voltage	Vrrm	150	200	VOLTS
Maximum RMS voltage	VRMS	135	140	VOLTS
Maximum DC blocking voltage	VDC	150	200	VOLTS
Maximum average forward rectified current (see fig.1)	l(AV)	20.0		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	150.0		Amps
Maximum instantaneous forward voltage at 10.0A	VF	0.95		Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lr	0.2 50.0		mA
Maximum thermal resistance(NOTE 1)	Rелс	1.5		°C/W
Operating junction temperature range	TJ	-55 to +150		°C
Storage temperature range	Тѕтс	-55	-55 to +150	

Note: 1.Thermal resistance from junction to case



RATINGS AND CHARACTERISTIC CURVES MBRF20150CT THRU MBRF20200CT

FIG.1 TYPICAL FORWARD CHARACTERISTICS

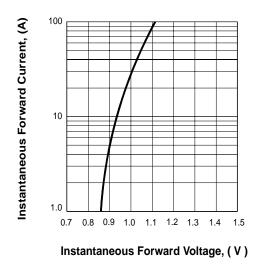


FIG.2 FORWARD DERATING CURVE

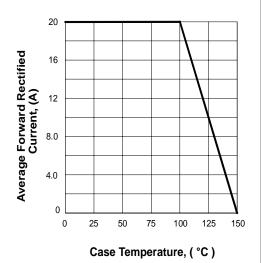
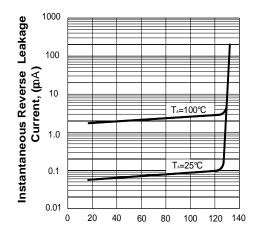
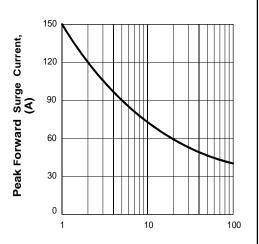


FIG.3 TYPICAL REVERSE CHARACTERISTICS



Percent Of Rated Peak Reverse Voltage, %

FIG.4 PEAK FORWARD SURGE CURRENT



Number Of Cycles At 60Hz



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