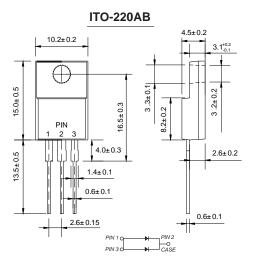


MBRF1020CT THRU MBRF10100CT

SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts Forward Current -10.0 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		MBRF 1030CT	MBRF 1040CT	MBRF 1045CT		MBRF 1060CT	MBRF 1070CT	MBRF 1080CT	MBRF 1090CT	MBRF 10100CT	UNITS
Maximum repetitive peak reverse voltage	Vrrm	20	30	40	45	50	60	70	80	90	100	VOLTS
Maximum RMS voltage	VRMS	14	21	28	32	35	42	49	56	63	70	VOLTS
Maximum DC blocking voltage	VDC	20	30	40	45	50	60	70	80	90	100	VOLTS
Maximum average forward rectified current	I(AV) 10.0								Λ			
(see fig.1)	I(AV)	10.0										Amps
Peak forward surge current												
8.3ms single half sine-wave superimposed on	Ігѕм	150.0										Amps
rated load (JEDEC Method)												-
Maximum instantaneous forward voltage at 5.0A	VF		0.55 0.75					0.85			Volts	
Maximum DC reverse current Ta=25℃		1.0										mA
at rated DC blocking voltage Ta=100℃	l _R	15.0				50.0						
Typical junction capacitance (NOTE 1)	Cı	550					450					pF
Typical thermal resistance (NOTE 2)	Rejc		2.0								°C/W	
Operating junction temperature range	TJ	-50 to +125			-50 to +150						°C	
Storage temperature range	Тѕтс	-50 to +150								°C		

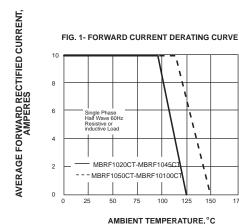
Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

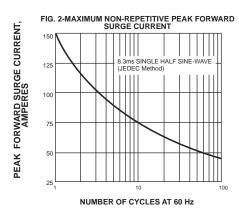
2. Thermal resistance from junction to case

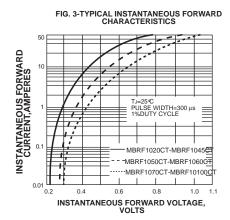


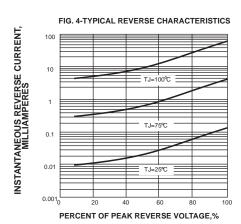
RATINGS AND CHARACTERISTIC CURVES MBRF1020CT THRU MBRF10100CT

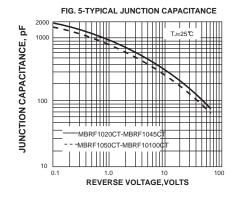
175

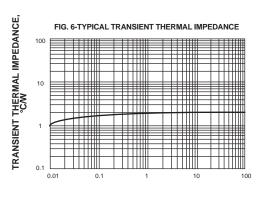












t,PULSE DURATION,sec.

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

