

ITO-220AB

 $16.5 \pm 0.3$ 

4.0±0.3

PIN 1

PIN 3C

1.4±0.1 0.6±0.1

2.6±0.15

3.3±0.1

.2±0.2

PIN 2

10.2±0.2

 $\left(+\right.$ 

PIN 2 3

15.0± 0.5

 $13.5 \pm 0.5$ 

4.5±0.2

3.1<sup>+0.2</sup>

.2±0.2

. с

0.6±0.1

 $2.6 \pm 0.2$ 

## MBRF2020CT THRU MBRF20100CT

### SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts Forward Current - 20.0 Amperes

### 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

#### Dimensions in inches and (millimeters)

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

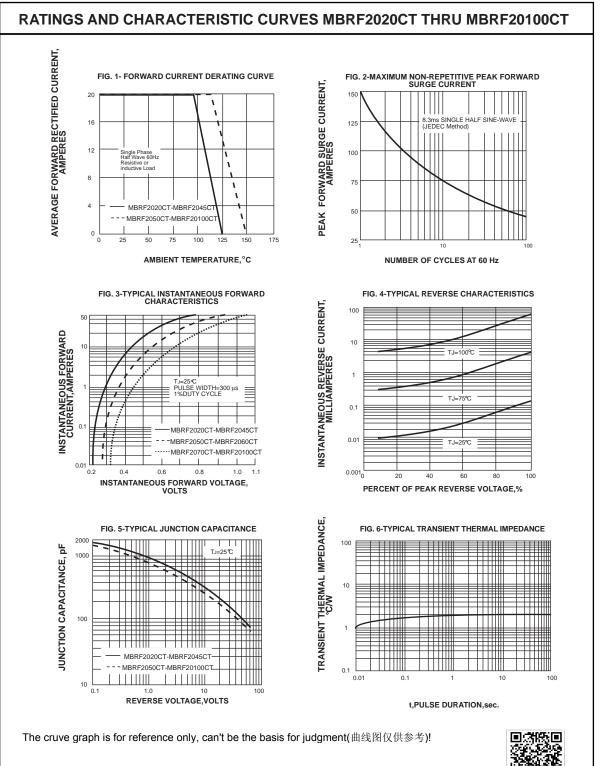
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

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SYMBOLS	MBRF 2020CT			MBRF 2045CT							UNITS
Vrrm	20	30	40	45	50	60	70	80	90	100	VOLTS
Vrms	14	21	28	32	35	42	49	56	63	70	VOLTS
VDC	20	30	40	45	50	60	70	80	90	100	VOLTS
Lan	20							0			
I(AV)	20.0										Amps
IFSM	150.0									Amps	
									-		
Vf	0.55				0.	.75	75 0.8				Volts
	1.0									mA	
IR	15.0					50.0					
Сл	550				450					рF	
Rejc	2.0								°C/W		
TJ		-55 to +125					-55 to +150				°C
Тѕтс	-55 to +150								°C		
	SYMBOLS VRRM VRMS VDC I(AV) IFSM VF IR CJ R 0JC TJ	SYMBOLS MBRF 2020CT   VRMM 20   VRMS 14   VDC 20   I(AV) -   IFSM -   VF -   IR -   CJ -   R0JC -   TJ -	SYMBOLS MBRF 2020CT MBRF 2030CT   VRMM 20 30   VRMS 14 21   VDC 20 30   I(AV) - -   IFSM - -   IR - -   CJ 5 -   R0jc - -   TJ -55 to -	SYMBOLS MBRF 2020CT MBRF 2030CT MBRF 2030CT MBRF 2040CT   VRRM 20 30 40   VRMS 14 21 28   VDC 20 30 40   I(AV) - - -   IFSM - - -   VF 0.55 - -   IR - 15.0 -   CJ 550 - -   Røjc - - -   TJ -555 to +125	SYMBOLS MBRF 2020CT MBRF 2030CT MBRF 2040CT	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$

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

2. Thermal resistance from junction to case





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