

MBR20300CT

UITRA LOW VF SCHOTTKY RECTIFIER

Features

- ♦ Low power loss, high efficiency
- ♦ High current capability, low forward voltage drop
- Plastic material used carriers Underwriters Laboratory Classification 94V-0
- ♦ High surge current capability
- ♦ Guard-ring for overvoltage protection
- ♦ For use in low voltage high frequency inventor, free wheeling, and polarity protection application

Mechanical Data

- ♦ Terminals: Pure tin plated leads, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: As marked
- ♦ Mounting position:Any
- ♦ Mounting torque: 5 in- lbs, max
- ♦ Weight: 1.92 grams



VOLTAGE RANGE

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 $^\circ\!\!\!\mathrm{C}$ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	MBR20300CT	UNIT
Maximum Recurrent Peak Reverse Voltage	Vrrm	300	V
Maximum RMS Voltage	VRMS	210	V
Maximum DC Blocking Voltage	VDC	300	V
Maximum Average ForwardRectified Current (See Fig.1)@Tc=95 °C	I(AV)	20	А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	150	A
Peak Forward Voltage at 10.0A DC (Note1)	V⊧	0.89	V
Maximum DC Reverse Current @TJ=25°C at Rated DC Bolcking Voltage @TJ=100°C	lr	0.1 15	mA
Typical Junction Capacitance (Note2)	CJ	300	pF
Typical Thermal Resistance (Note3)	Rejc	3.0	°C/W
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	Тѕтс	-55 to +150	°C

NOTES:1.300us pulse width,2% duty cycle.

2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

3. Thermal resistance junction to case.

4.The typical data above is for reference only(典型值仅供参考).

RATING AND CHARACTERTIC CURVES MBR20300CT

