MBR10300LFCT



10.0 A Schottky Barrier 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

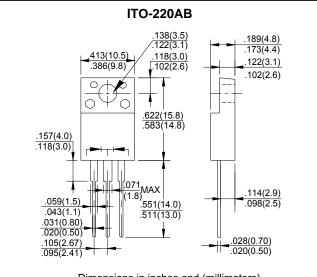
- Terminals: Pure tin plated leads, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: As marked
- ♦ Mounting position:Any
- ♦ Mounting torque: 5 in- lbs, max
- ♦ Weight: 1.92 grams

VOLTAGE RANGE

300 Volts

CURRENT

10.0 Ampere



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

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

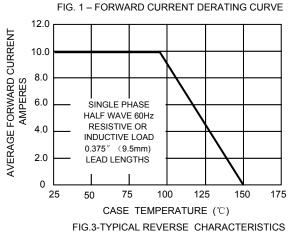
For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	MBR10300LFCT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	300	V
Maximum RMS Voltage	VRMS	210	V
Maximum DC Blocking Voltage	VDC	300	V
Maximum Average Forward Rectified Current (See Fig.1) @Tc=95 ℃	I(AV)	10	А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	120	А
Peak Forward Voltage at 5.0A DC (Note1)	VF	0.90	V
Maximum DC Reverse Current @TJ=25℃ at Rated DC Bolcking Voltage @TJ=100℃	lR .	5 500	uA
Typical Junction Capacitance (Note2)	CJ	300	pF
Typical Thermal Resistance (Note3)	Reлc	3.0	°C/W
Operating Temperature Range	TJ	-55 to +150	$^{\circ}$
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 MBR10300LFCT



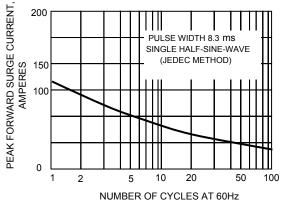
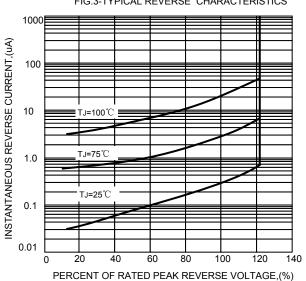
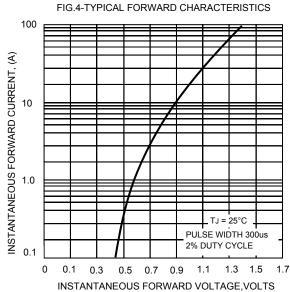
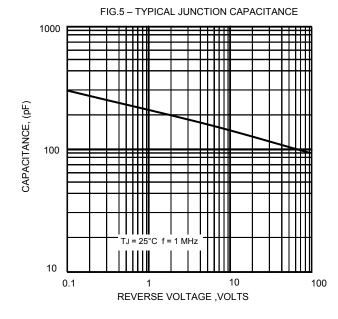


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT







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