MBR20300LFCT

20.0 AMP LOW VF SCHOTTKY RECTIFIER

Features

- Low Forward Voltage Drop
- Excellent High Temperature Stability
- Excellent Barrier Rectifier Technology
- Soft, Fast Switching Capability

Mechanical Data

- Case Material: Molded Plastic, UL Flammability Classification Rating 94V-0
- Terminals: Matte Tin Finish annealed over Copper leadframe.Solderable per MIL-STD-202, Method 208
- Weight: 1.915 grams (approximate)

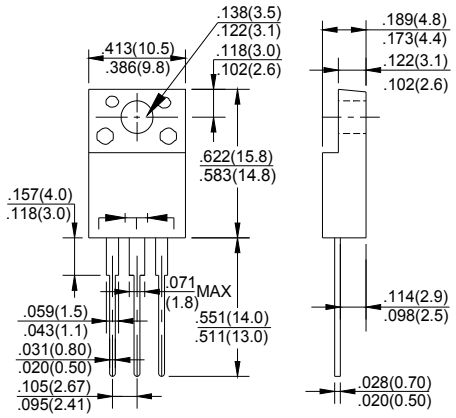
VOLTAGE RANGE

300 Volts

CURRENT

20.0 Ampere

ITO-220AB



Dimensions in inches and (millimeters)

Maximum Ratings (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	MBR20300LFCT	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	300	V
Maximum RMS voltage	V_{RMS}	210	V
Maximum DC blocking voltage	V_{DC}	300	V
Maximum average forward rectified current (Total) (Per Leg)	I_F	 20 10	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	160	A
Maximum Instantaneous Forward Voltage IF=10A @ 25°C	V_F	0.93	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=125°C	I_R	0.2 25	mA
Typical Junction Capacitance(NOTE1)	C_j	1110	pF
Typical Thermal Resistance	$R_{\theta JC}$	3	°C/W
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +175	°C

NOTES:

1.Measured at 1.0MHZ and applied reverse voltage of 4.0V DC

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

RATING AND CHARACTERTIC CURVES

MBR20300LFCT

FIG1:Io -Tc Curve

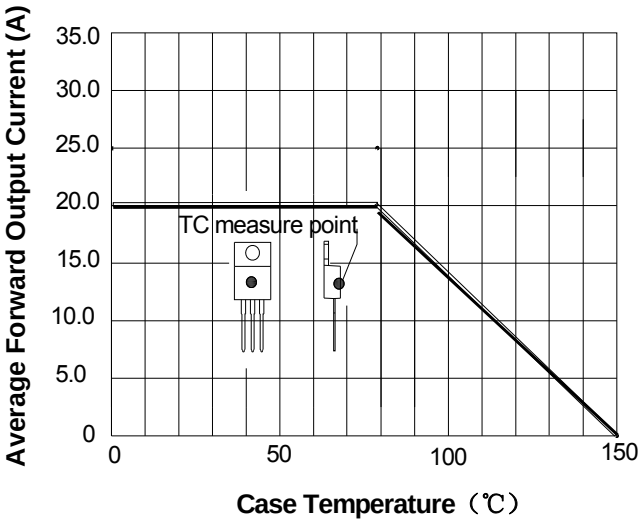


FIG. 3-Maximum Non-Repetitive Forward Surge Current

FIG2:Surge Forward Current Capability

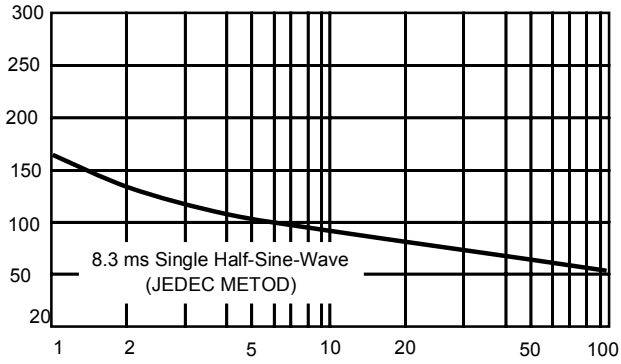


FIG3: Forward Voltage

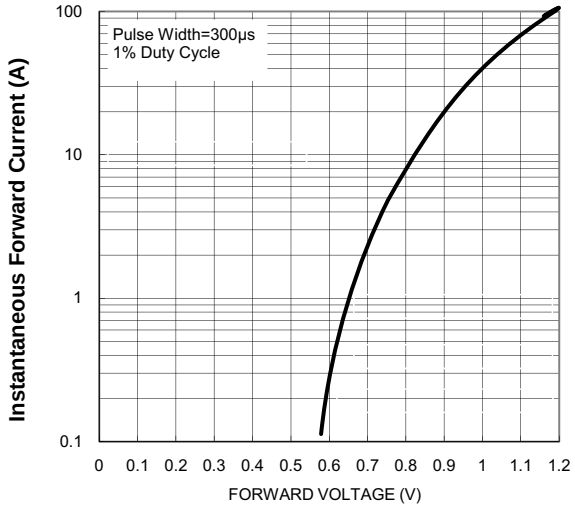


FIG.4: Instantaneous Reverse Characteristics