MBRF3040CT-MBRF30200CT

30.0 A Schottky Barrier Rectifier

RoHS COMPLIANT

VOLTAGE RANGE

40 to 200 Volts

CURRENT

30.0 Ampere

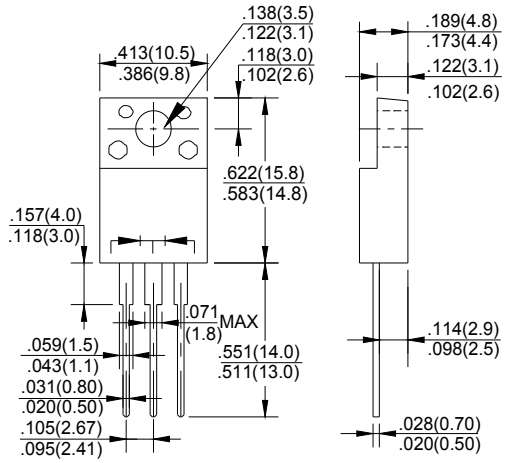
FEATURES

* Low forward voltage drop
* High current capability
* High reliability
* Low Power Loss，High Efficiency

MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
* Polarity: Color band denotes cathode end
* Mounting position: Any
* Weight: 1.62 grams

ITO-220AB



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MBRF 3040CT	MBRF 3060CT	MBRF 30100CT	MBRF 30150CT	MBRF 30200CT	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	60	100	150	200	V
Maximum RMS Voltage	V_{RMS}	28	42	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	40	60	100	150	200	V
Maximum Average Forward Rectified Current (See Fig.1)	$I_{(AV)}$	30.0					A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	200					A
Peak Forward Voltage (Note1) IF=15A @TJ =25℃	V_F	0.70	0.75	0.85	0.9	0.95	V
Maximum DC Reverse Current @TJ=25℃ at Rated DC Bolcking Voltage @TJ=125℃	I_R	0.5 20		0.1 5			mA
Typical Thermal Resistance (Note2)	$R_{\theta JC}$	3.5					℃/W
Operating Temperature Range	T_J	-55 to +125					℃
Storage Temperature Range	T_{STG}	-55 to +150					℃

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

2.Thermal resistance junction to case.

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

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RATING AND CHARACTERTIC CURVES

FIG. 1 – FORWARD CURRENT DERATING CURVE

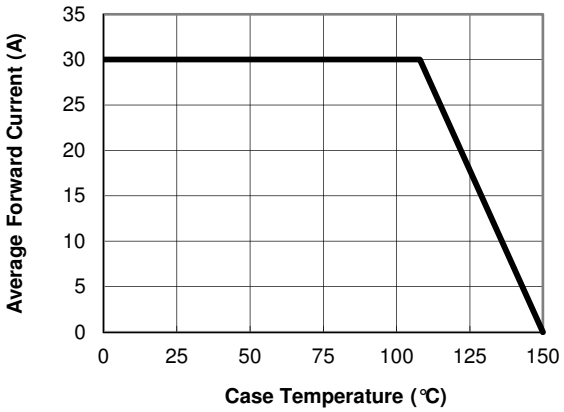

FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

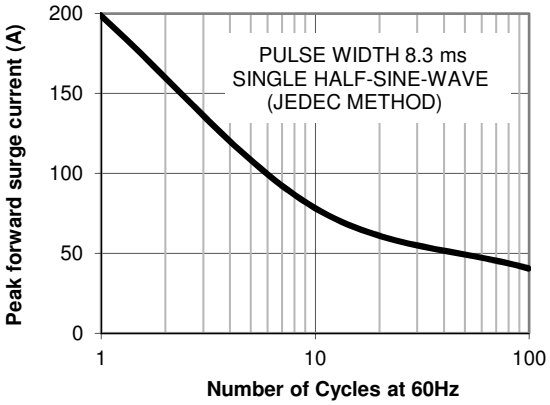

FIG.3-TYPICAL REVERSE CHARACTERISTICS

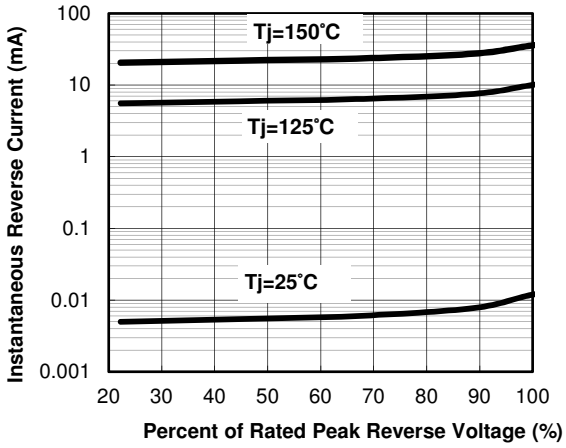

FIG.4-TYPICAL FORWARD CHARACTERISTICS