



VOLTAGE RANGE: 100 to 300 Volts  
FORWARD CURRENT: 30 Amps

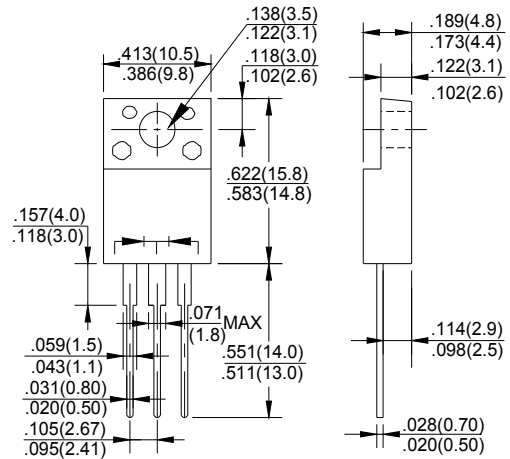
### ITO-220AB

#### 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 inverter, 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



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

\* Rating at 25 °C ambient temperature unless otherwise specified.

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

\* For capacitive load, derate current by 20%

Type Number	Symbol				Unit
		MBRF30100LCT	MBRF30200LCT	MBRF30300LCT	
Maximum Repetitive Peak Reverse Voltage	VRRM	100	200	300	V
Maximum RMS Voltage	VRMS	70	140	210	V
Maximum DC Blocking Voltage	VDC	100	200	300	V
Maximum Average Forward Rectified Current	IF	30			A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	200			A
Maximum Instantaneous Forward Voltage @15A	VF	0.75	0.90	0.95	V
Maximum Reverse Current @ Rated VR TA=25 °C TA=125 °C	IR	300 15000			uA
Typical Junction Capacitance (Note 1)	Cj	350			pF
Typical Thermal Resistance(Note 2)	R <sub>θJC</sub>	4.5			°C/w
Operating and Storage Temperature Range	TJ	-65--+150			°C

NOTE1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

NOTE2. Leads maintained at ambient temperature at a distance of 9.5mm from the case



# MBRF30100LCT THRU MBRF30300LCT

## 30.0 A Schottky Barrier Rectifier



### RATING AND CHARACTERISTIC CURVES

FIG. 1 – FORWARD CURRENT DERATING CURVE

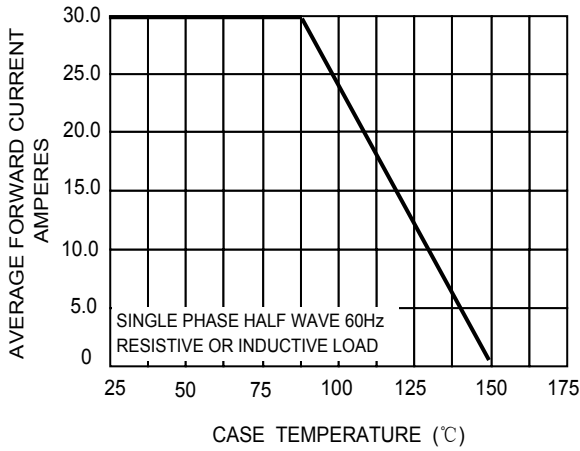


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

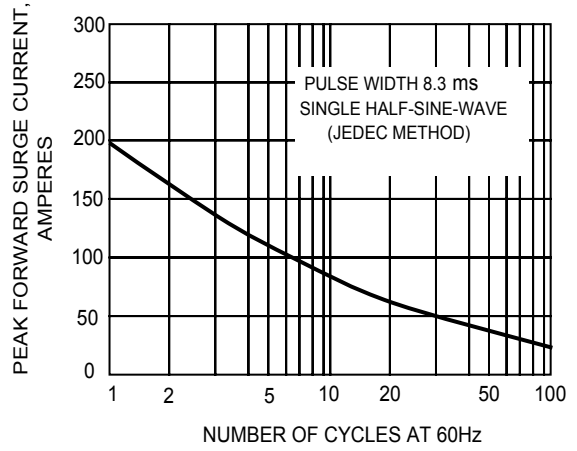


FIG.3-TYPICAL REVERSE CHARACTERISTICS

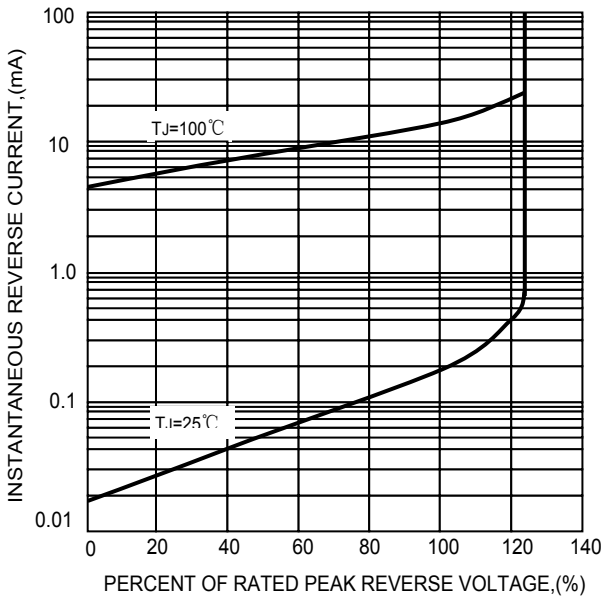


FIG.4-TYPICAL FORWARD CHARACTERISTICS

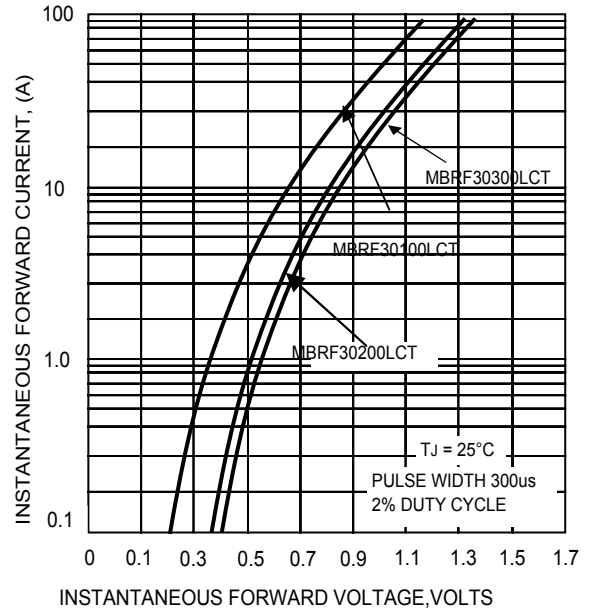
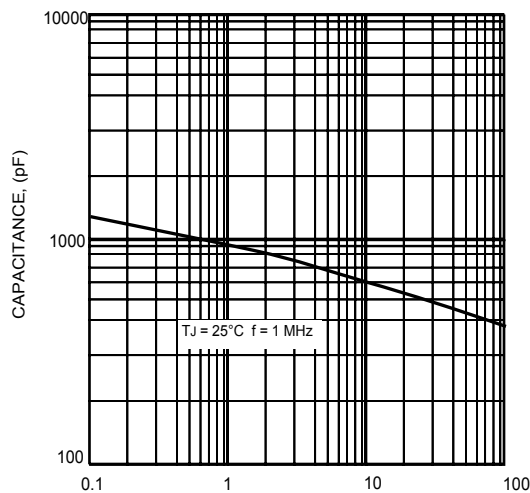


FIG.5 – TYPICAL JUNCTION CAPACITANCE



Part No.	Marking	Package	Shipping Quantity
MBRF30XXXLCT	MBRF30XXXLCT	ITO-220AB	50PCS/Tube

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