



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

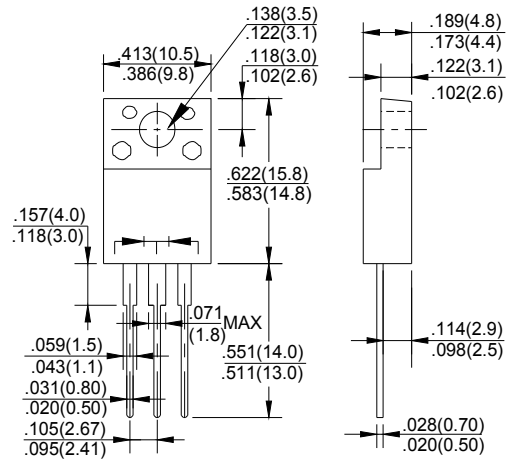
ITO-220AB

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.

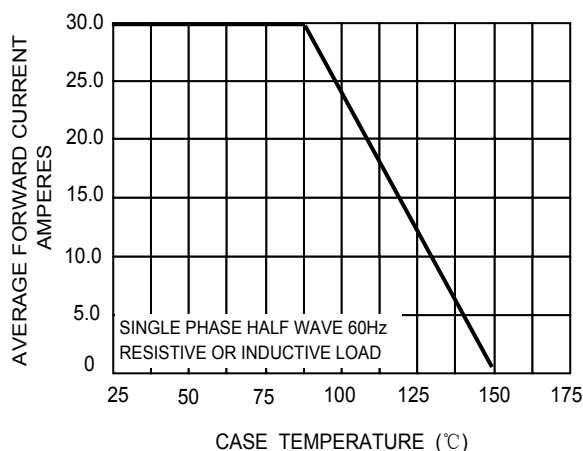
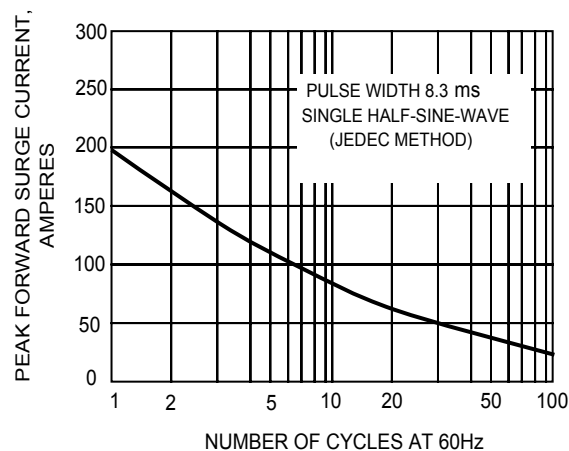
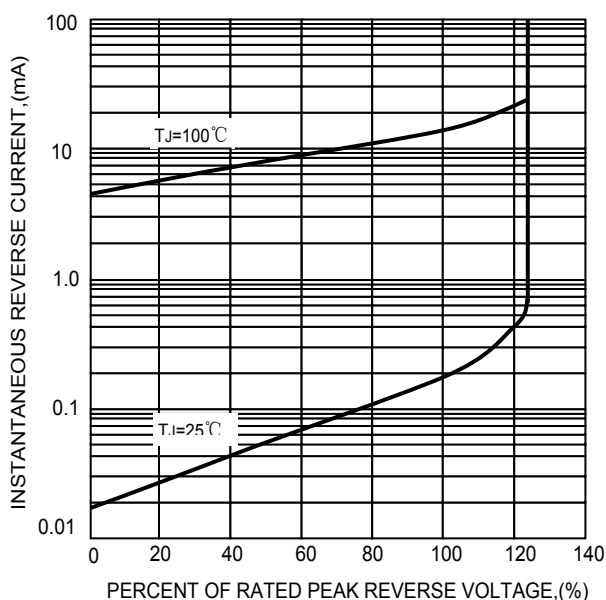
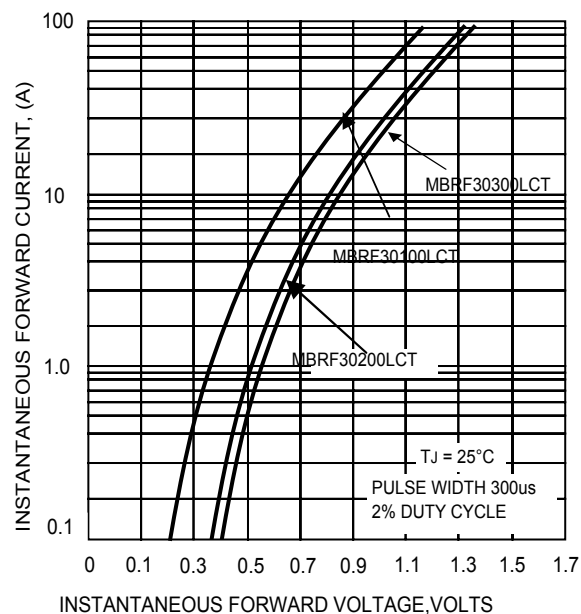
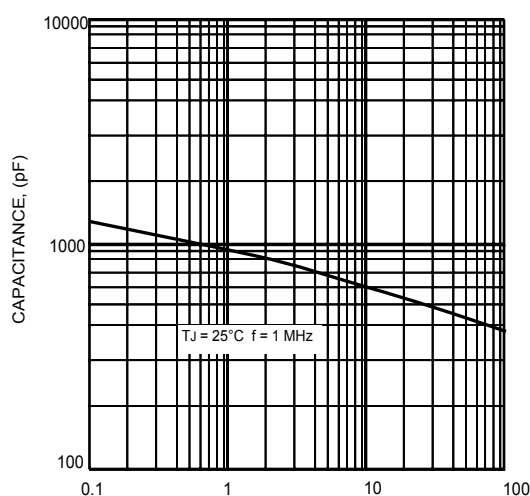
* Single phase, half wave, 60 Hz, resistive or inductive load.

* For capacitive load, derate current by 20%

Type Number	Symbol	MBRF30100LCT	MBRF30200LCT	MBRF30300LCT	Unit
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)	RθJC	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

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