



### VOLTAGE RANGE

40 to 200 Volts

### CURRENT

30.0 Ampere

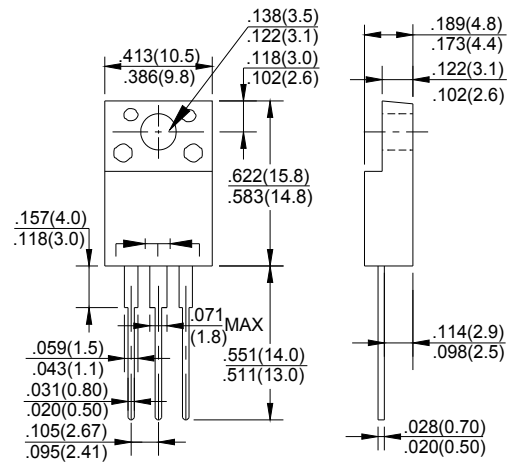
### FEATURES

- \* 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 guaranteed
- \* 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) $I_F=15A$ @ $T_J=25^\circ C$	$V_F$	0.70	0.75	0.85	0.9	0.95	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_J=25^\circ C$ @ $T_J=125^\circ C$	$I_R$	0.5 20		0.1 5			mA
Typical Thermal Resistance (Note2)	$R_{\theta JC}$	3.5					$^\circ C/W$
Operating Temperature Range	$T_J$	-55 to +125					$^\circ C$
Storage Temperature Range	$T_{STG}$	-55 to +150					$^\circ C$

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 )!

### RATING AND CHARACTERISTIC CURVES

FIG. 1 – FORWARD CURRENT DERATING CURVE

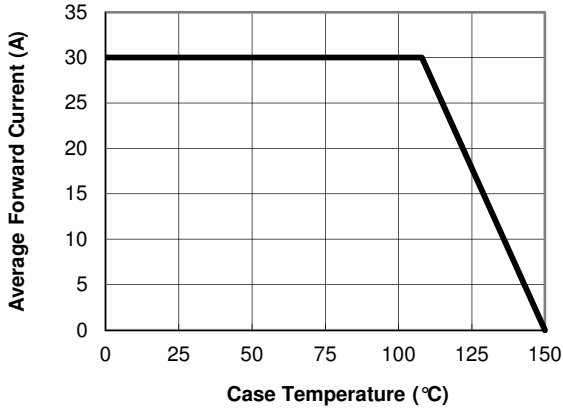


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

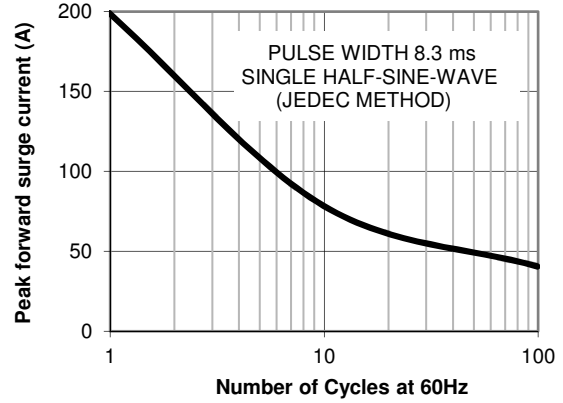


FIG.3-TYPICAL REVERSE CHARACTERISTICS

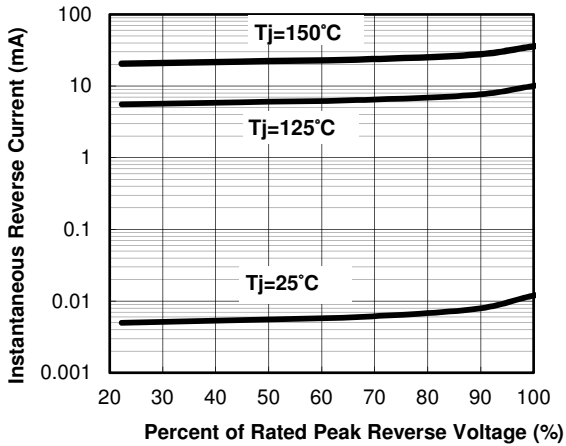
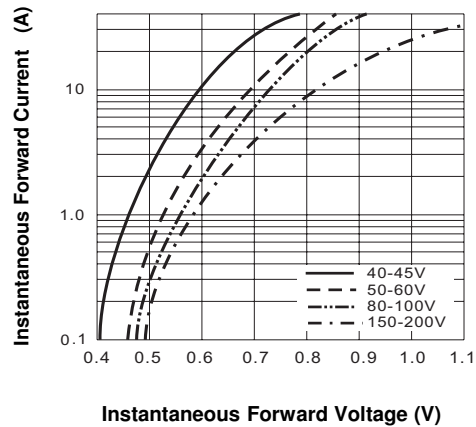


FIG.4-TYPICAL FORWARD CHARACTERISTICS



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