



MBRF3040CT thru MBRF3060CT

30.0A Schottky Barrier Rectifiers
Rectifier Reverse Voltage 40 to 60V

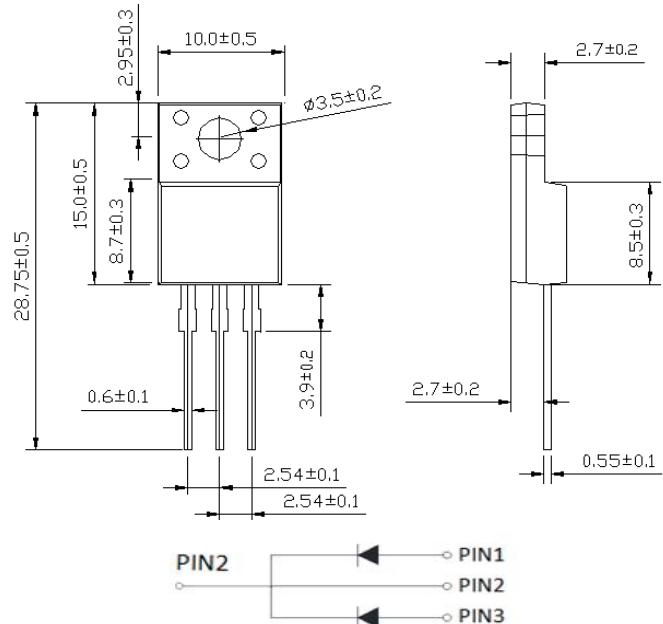
ITO-220AB

Features

- High frequency operation
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 260 °C max. 8 s, per JESD 22-B106

Mechanical Data

- **Package:** ITO-220AB
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked



Dimensions in millimeters (1mm =0.0394")

■Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBRF3040CT	MBRF3060CT
Device marking code			MBRF3040CT	MBRF3060CT
Repetitive Peak Reverse Voltage	V_{RRM}	V	40	60
Average Rectified Output Current @60Hz sine wave, R-load, $T_a=25^\circ\text{C}$	I_O	A	30	
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, $T_a=25^\circ\text{C}$	I_{FSM}	A	180	
Current Squared Time @1ms≤t<8.3ms $T_j=25^\circ\text{C}$,	I^2t	A^2s	134	
Storage Temperature	T_{stg}	$^\circ\text{C}$		-55 ~ +150
Junction Temperature	T_j	$^\circ\text{C}$		-55 ~ +150

■Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRF3040CT	MBRF3060CT
Maximum instantaneous forward voltage drop per diode	V_{FM}	V	$I_{FM}=15.0\text{A}$	0.65	0.78
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	mA	$V_{RM}=V_{RRM}$ $T_a=25^\circ\text{C}$	0.3	0.2
	I_{RRM2}		$V_{RM}=V_{RRM}$ $T_a=125^\circ\text{C}$	20	
Thermal Resistance	Between junction and case		$R_{\theta J-C}$	2.0	

Rating and Characteristic Curves ($T_A=25^\circ\text{C}$ Unless otherwise noted)
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