



MBRF1045CT thru MBRF1060CT

10.0A Schottky Barrier Rectifiers

Rectifier Reverse Voltage 100 to 200V

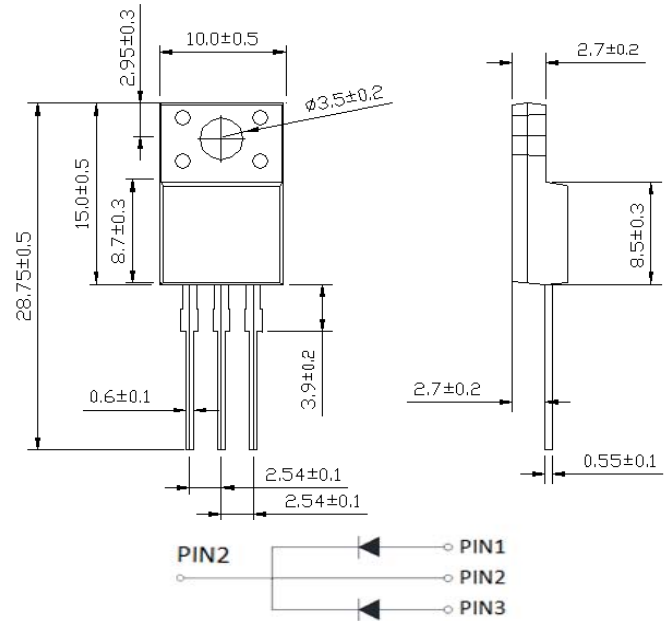
ITO-220

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:** TO-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 (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBRF1045CT	MBRF1060CT
Device marking code			MBRF1045CT	MBRF1060CT
Repetitive Peak Reverse Voltage	VRRM	V	45	60
Average Rectified Output Current @60Hz sine wave, R-load, Ta=25°C	IO	A	10	
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25°C	IFSM	A	90	
Current Squared Time @1ms≤t<8.3ms Tj=25°C,	I ² t	A ² s	33.6	
Storage Temperature	Tstg	°C	-55 ~ +175	
Junction Temperature	Tj	°C	-55 ~ +150	

■Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRF1045CT	MBRF1060CT
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=5.0A	0.65	0.75
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM1}	mA	V _{RM} =V _{VRRM} Ta=25°C	0.2	0.15
	I _{RRM2}		V _{RM} =V _{VRRM} Ta=125°C	20	
Thermal Resistance	R _{θJ-C}	°C/W	Between junction and case	2.0	

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

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FIG1: I_o - T_c Curve

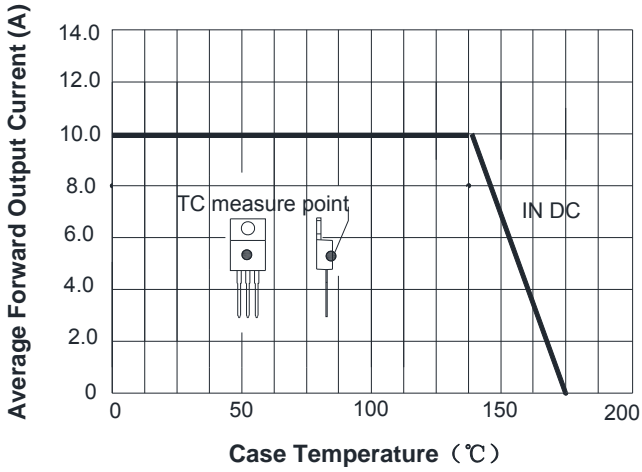


FIG2: Surge Forward Current Capability

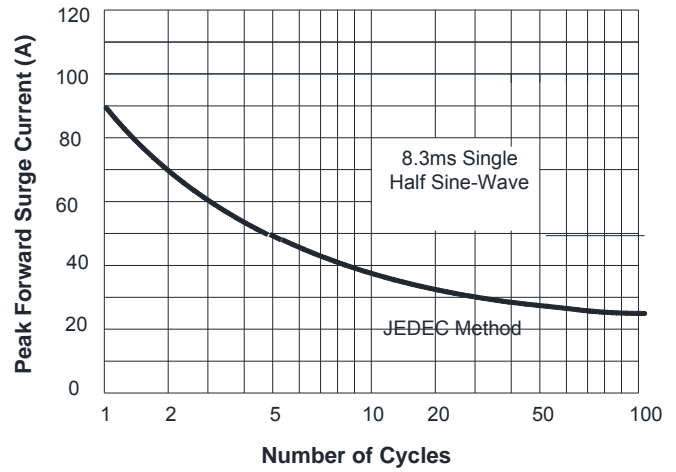


FIG3: Forward Voltage

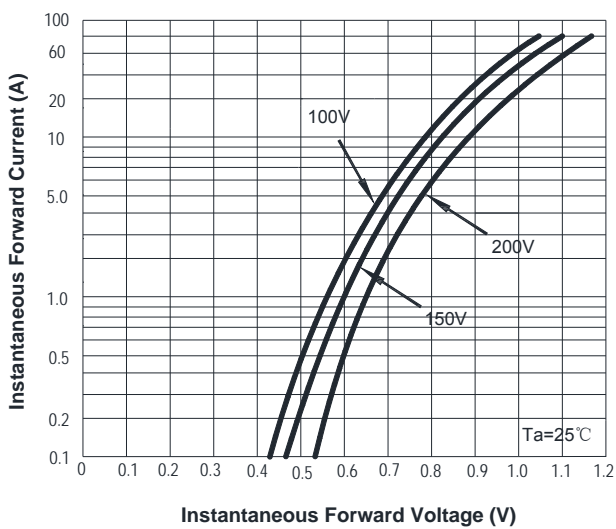
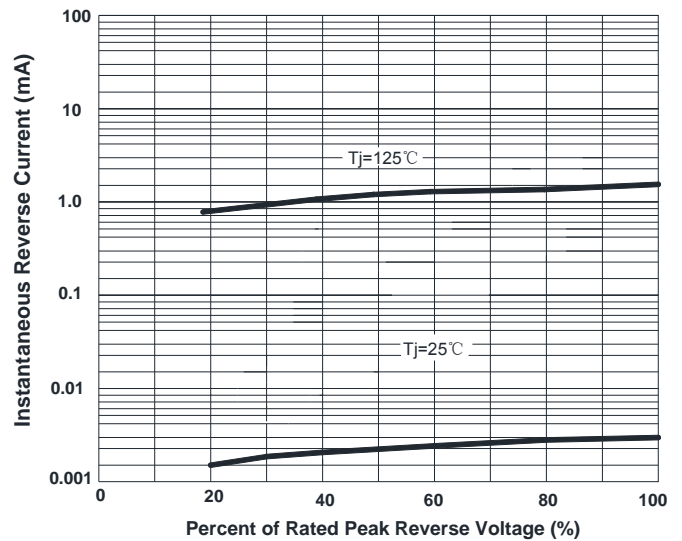


FIG4: Instantaneous Reverse Characteristics



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