MBR2035F THRU MBR20150F

Schottky Rectifier

#### Features

• High efficiency operation

RLIIL

- Guard ring for enhanced ruggedness and long term reliablity
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Solder dip maximum peak of 275 °C /7s, per JESD 22-B106

### **Typical Application**

For use in switching power supplies, converters, freewheeling diodes and reverse battery protection.

#### **Mechanical Data**

- Package: ITO-220AC
  Molding compound meets UL 94 V-0 flammability rating,RoHS-compliant
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Color Band denotes cathode end

#### ■ Maximum Ratings (Ta=25°C Unless otherwise specified)

DADAMETED	Cumph of	Unit	Conditions		MBR20-F							
PARAMETER	Symbol				45	50	60	90	100	150		
Repetitive Peak Reverse Voltage	VRRM	V		35	45	50	60	90	100	150		
Average Rectified Output Current	lo	А	60HZ Half-sine wave, Resistance load, Tc(Fig.1)	20.0								
Surge(Nonrepetitive)Forward Current	IFSM	А	60HZ sine wave, 1 cycle, Ta=25℃	150								
Storage Temperature	T <sub>stg</sub>	°C		-55 ~ +150								
Junction Temperature	Tj	°C		-55 ~ +150								

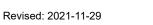
#### Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions		MBR20-F							
FARAIVIETER	Symbol	Unit			35	45	50	60	90	100	150	
Peak Forward Voltage	V <sub>FM</sub>	V	I <sub>FM</sub> =20.0A			.75 0.85		0.95		1.02		
Peak Reverse Current	I <sub>RRM1</sub>	m (	V <sub>RM</sub> =V <sub>RRM</sub>	<b>Ta=25</b> ℃	0.2							
	I <sub>RRM2</sub>	- mA		Ta=125℃	1	5	1	0	5.0			
Thermal Resistance	R <sub>θJ-C</sub>	R <sub>0J-C</sub>	Between junction and case			3.0 <sup>1)</sup>						

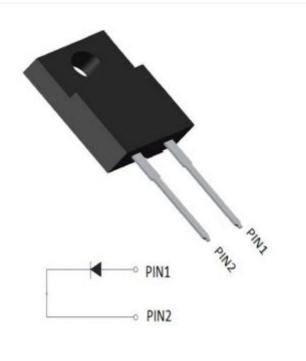
#### NOTES:

<sup>1)</sup>Thermal resistance from junction to case per leg with heat-sink size of 2"x3"x0.25"A-L plate





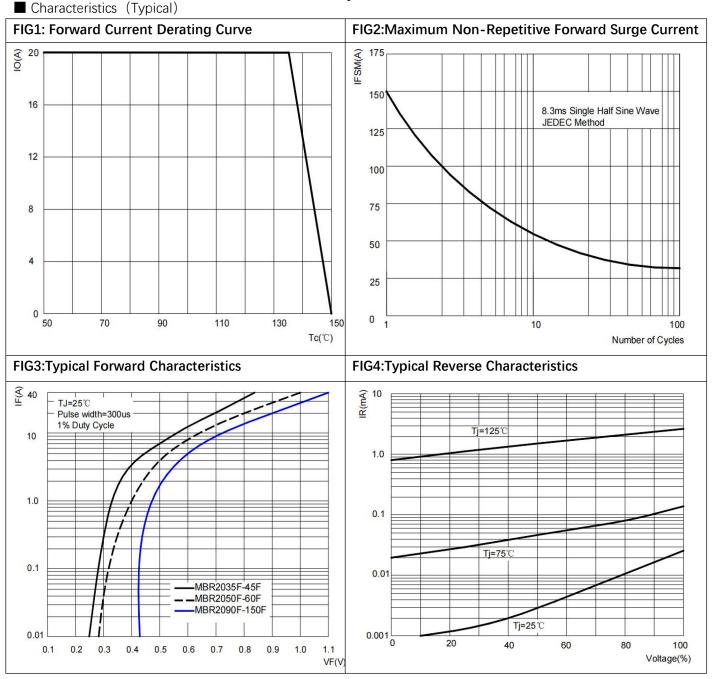




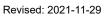


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Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
MBR2035F ~ MBR20150F	ITO-220AC	50	1000	5000	Tube	

#### Outline Dimensions

