MBR1035F THRU MBR10150F Schottky Diodes

Features

High efficiency operation

RLILAN

- 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)

PARAMETER	Symbol	Unit	Conditions		MBR10-F							
					45	50	60	90	100	150		
Repetitive Peak Reverse Voltage	V _{RRM}	V		35	45	50	60	90	100	150		
Average Rectified Output Current	lo	Δ	60HZ Half-sine wave, Resistance load, Tc(Fig.1)	10.0								
Surge(Nonrepetitive)Forward Current	I _{FSM}	А	60HZ sine wave, 1 cycle, Ta=25℃	150								
Storage Temperature	T _{stg}	°C		-55 ~ +150								
Junction Temperature	Tj	°C		-55 ~ +150								

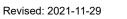
Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions			MBR10-F							
PARAIVIETER	Symbol		Conditions		35	45	50	60	90	100	150		
Peak Forward Voltage	V _{FM}	V	I _{FM} =10A			0.70 0.80		0.85		1.05			
Peak Reverse Current	I _{RRM1}	- mA	V _{RM} =V _{RRM}	Ta=25 ℃	0.1								
	I _{RRM2}		VRM-VRRM	Ta=125 ℃		15 10		6.0)			
Thermal Resistance	R _{0J-C}	°C/W	Between junction and case				3.0 ¹⁾						

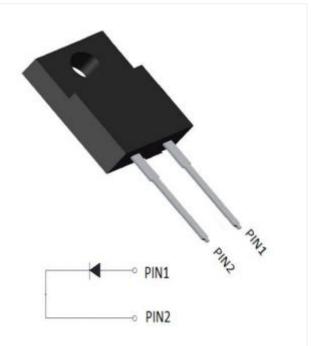
NOTES:

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





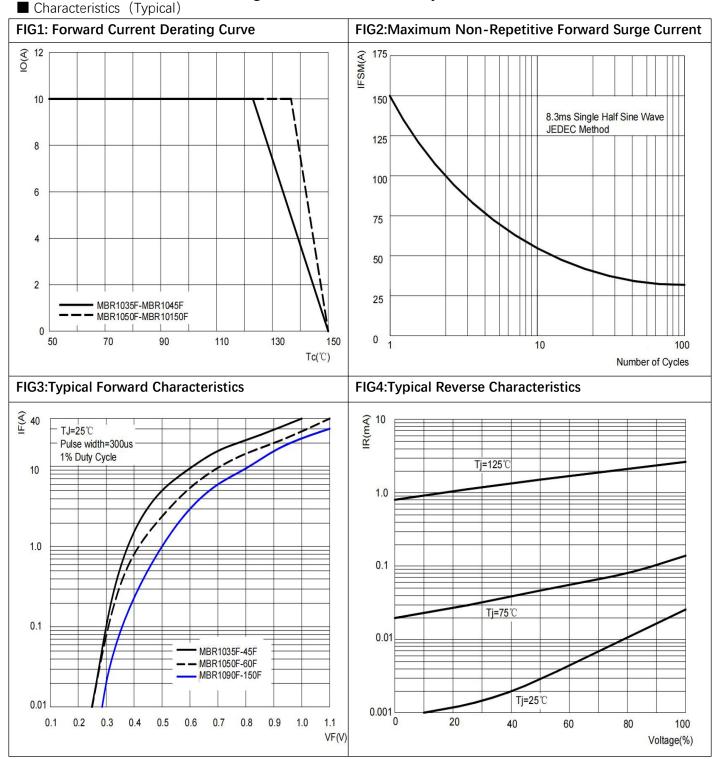






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High Performance Schottky Diodes











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Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
MBR1035F ~MBR10150F	ITO-220AC	50	1000	5000	Tube	

Outline Dimensions

