RUIL&N

MBR1635F THRU MBR16150F Schottky Diodes

Features

- High efficiency operation
- 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	l lucit	Conditions	MBR16-F							
PARAMETER	Symbol	Unit	Conditions		45	50	60	90	100	150	
Repetitive Peak Reverse Voltage	V _{RRM}	V		35	45	50	60	90	100	150	
Average Rectified Output Current	Io	А	60HZ Half-sine wave, Resistance load, Tc(Fig.1)	16							
Surge(Nonrepetitive)Forward Current	I _{FSM}	А	60HZ sine wave, 1 cycle, Ta=25℃	125							
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			MBR16-F						
PARAMETER	Symbol		Conditions		35	45	50	60	90	100	150	
Peak Forward Voltage	V _{FM}	V	I _{FM} =16.0A			65	0.75		0.85		0.95	
Peak Reverse Current	I _{RRM1}	m۸	V _{RM} =V _{RRM}	Ta=25 ℃	0.2							
	I _{RRM2}	- mA	VRM-VRRM	Ta=100 ℃	15 10				5			
Thermal Resistance	$R_{\theta J-C}$	R _{θJ-C}	Between juncti	3.0 ¹⁾								

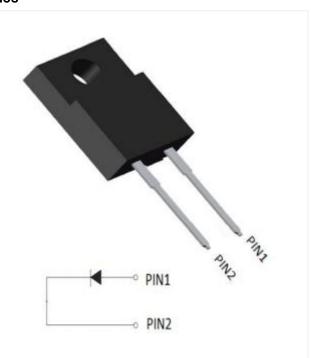
NOTES:

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





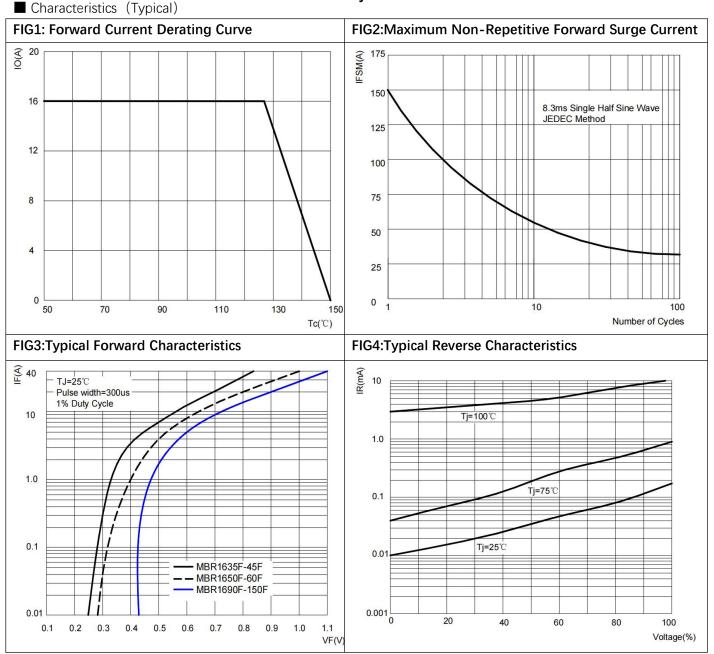






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Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
MBR1635F ~ MBR16150F	ITO-220AC	50	1000	5000	Tube	

Outline Dimensions

