# MBR1035FCT THRU MBR10150FCT Schottky Rectifier

## Features

High efficiency operation

RLIL&N

- 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-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: Color Band denotes cathode end

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

PARAMETER	Symbol	Unit	Conditions		MBR10-FCT							
					45	50	60	90	100	150		
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V		35	45	50	60	90	100	150		
Average Rectified Output Current	lo	А	60HZ Half-sine wave, Resistance load, Tc(Fig.1)	10.0								
Surge(Nonrepetitive)Forward Current	I <sub>FSM</sub>	А	60HZ sine wave, 1 cycle, Ta=25℃	120								
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	Condi	MBR10-FCT							
FARAWETER	Symbol	Unit	Conditions		35	45	50	60	90	100	150
Peak Forward Voltage	V <sub>FM</sub>	v	IF <sub>M</sub> =5	0.70 0.80		0.85		1.05			
	I <sub>RRM1</sub>			<b>Ta=25</b> ℃	0.1						
Peak Reverse Current	I <sub>RRM2</sub>	mA	V <sub>RM</sub> =V <sub>RRM</sub>	Ta=125℃	15		1	0	6		
Thermal Resistance	R <sub>θJ-C</sub>	°C/W	Between juncti	3.5 <sup>1)</sup>							

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#### NOTES:

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







PIN1

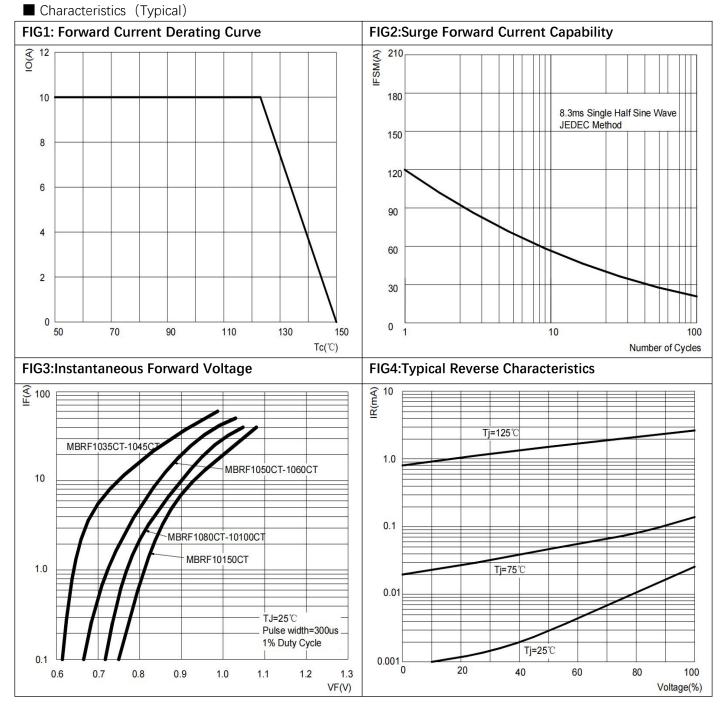
PIN2

PIN3



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Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
MBR1035FCT~MBR10150FCT	ITO-220AB	50	1000	5000	Tube	

#### Outline Dimensions

