

Features

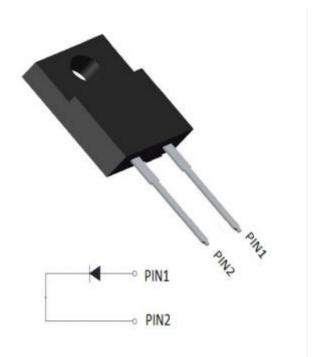
- High efficiency operation
- Guard ring for enhanced ruggedness and long term reliablity
- High purity,high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Solder dip maximum peak of 275 °C /7s, per JESD 22-B106

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)

PARAMETER	Cumbal	Unit	Conditions	MBR20-F						
PARAMETER	Symbol		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	Α	60HZ Half-sine wave, Resistance load, Tc(Fig.1)	20.0						
Surge(Nonrepetitive)Forward	I _{FSM}	Ι Α	60HZ sine wave, 1 cycle,		450					
Current			Ta=25℃	150						
Storage Temperature	T _{stg}	$^{\circ}\!\mathbb{C}$		-55 ~ +150						
Junction Temperature	Tj	$^{\circ}\!\mathbb{C}$		-55 ~ + 150						

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

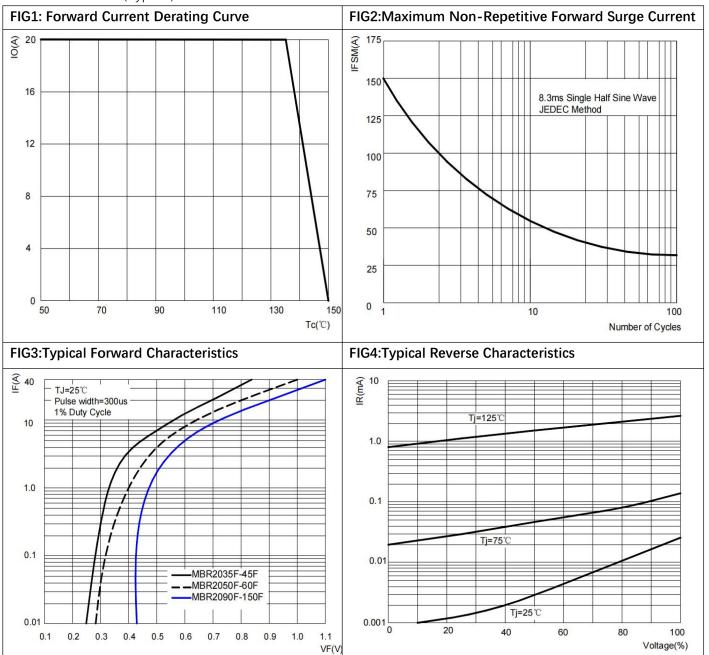
PARAMETER	Cumbal	Unit	Conditions		MBR20-F						
PARAMETER	Symbol				35	45	50	60	90	100	150
Peak Forward Voltage	V _{FM}	V	I _{FM} =20.0A			0.75 0.85		0.95 1.02		1.02	
Peak Reverse Current	I _{RRM1}	- no Λ	\/ -\/	Ta=25℃	0.2						
	I _{RRM2}	mA	V _{RM} =V _{RRM}	Ta=125℃	1	5	5 10		5.0)
Thermal Resistance	R өJ-с	R өJ-C	Between junction and case			3.01)					

NOTES:

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



■ Characteristics (Typical)

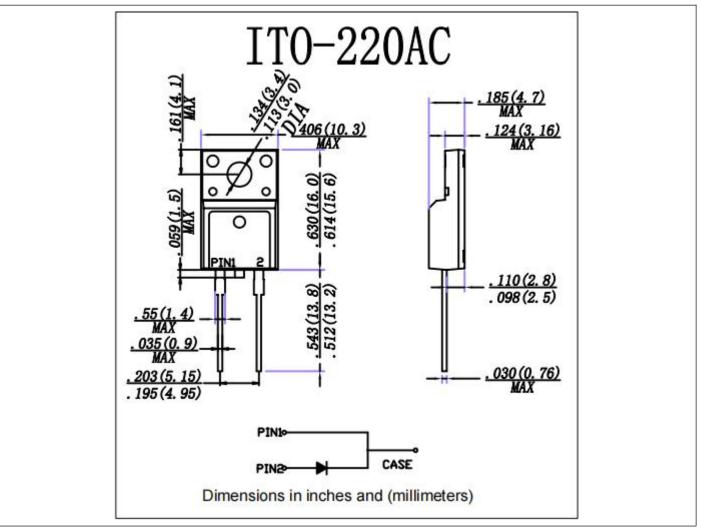




■ Ordering Information (Example)

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





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