

MBR20V150CTH/FCTH

Trench MOS Barrier Schottky Rectifier - 20Amp 150Volt

Features

- -Plastic package has Underwriters Laboratory Flammability Classifications 94V-0
- -High Junction Temperature Capability
- -Low forward voltage, high current capability
- -High surge capacity
- -Low power loss, high efficiency
- -Halogen-Free

Application

-AC/DC Switching Adaptor and other Switching Power Supply

☐ Absolute maximum ratings

Symbol	Ratings	Unit	Conditions	
I F(AV)	20	А	Average Forward Current	
Vrrm	150	V	Repetitive Peak Reverse Voltage	
IFSM	150	Α	Peak Forward Surge Current	
VF	0.69	V	Forward Voltage Drop	
Tj, Tstg	-65 to +150	°C	Operating and Storage Temperature	

Electrical characteristics

Parameters	Symbol	Ratings		Conditions
	VF	TYP.	MAX.	Per Leg at IF = 10A Tc = 25°C Tc = 125°C
Instantaneous Forward Voltage		0.82V 0.69V	0.85V 0.72V	
		TYP.	MAX.	Per Leg at VR = 150V Tc = 25°C Tc = 125°C
Reverse Leakage Current	lR	15uA 15mA	200uA 30mA	
		2.2 °C/W		Per Leg
Typical Thermal Resistance, Junction to Case	Rθ (j-c)			TO-220AB
		4.5 °C/W		ITO-220AB

Note: 1.Mounted on P.C.B with copper pad size 20mm x 30mm, thickness 1.5mm

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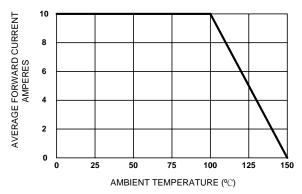


Figure 1. Forward Current Derating Curve

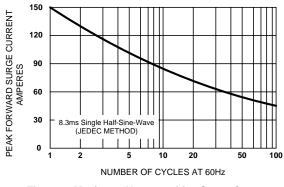


Figure 2. Maximum Non-repetitive Surge Current

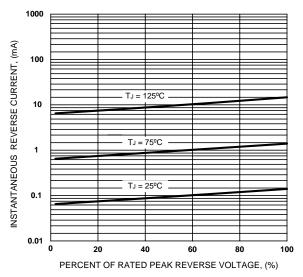


Figure 3. Typical Reverse Characteristics

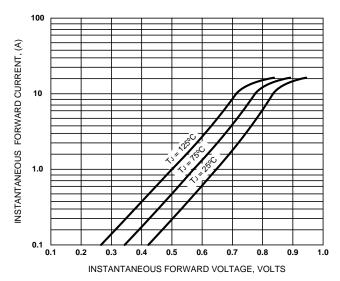


Figure 4. Typical Forward Characteristics

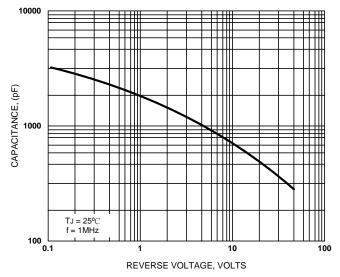
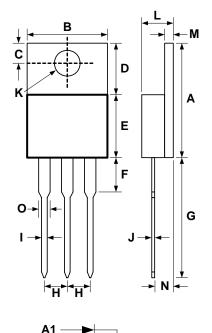


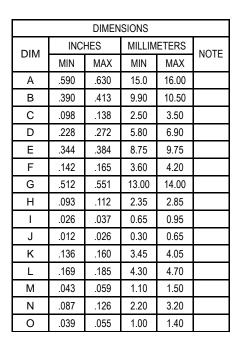
Figure 5. Typical Junction Capacitance

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T0-220AB

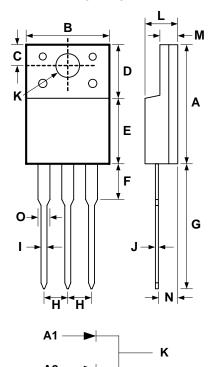


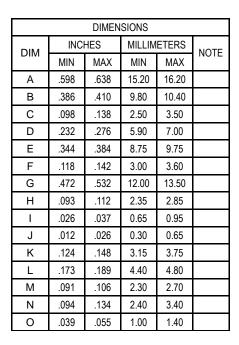
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ITO-220AB







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