

MBR30V80CTH/FCTH

Trench MOS Barrier Schottky Rectifier - 30Amp 80Volt

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

Symbol	Ratings	Unit	Conditions	
lF(AV)	30	A	Average Forward Current	
Vrrm	80	V	Repetitive Peak Reverse Voltage	
IFSM	200	А	Peak Forward Surge Current	
VF	0.62	V	Forward Voltage Drop	
Tj, Tstg	-65 to +150	٥C	Operating and Storage Temperature	

☐ Absolute maximum ratings

Electrical characteristics

Parameters	Symbol	Ratings		Conditions
		TYP.	MAX.	Per Leg at IF = 15A Tc = 25ºC
Instantaneous Forward Voltage	VF	0.65V	0.68V	
		0.62V	0.65V	Tc = 125°C
	lr	TYP.	MAX.	Per Leg at VR = 80V Tc = 25°C Tc = 125°C
Reverse Leakage Current		0.2mA	0.5mA	
		25mA	50mA	
		2.2 °C/W 4.5 °C/W		Per Leg
Typical Thermal Resistance, Junction to Case	Rθ (j-c)			TO-220AB
				ITO-220AB

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

December 2018 / Rev.7.2

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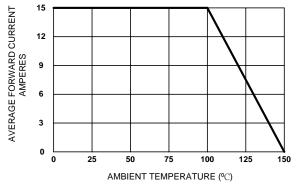


Figure 1. Forward Current Derating Curve

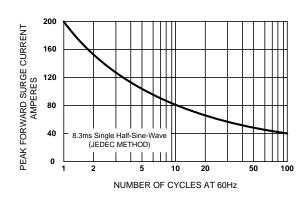
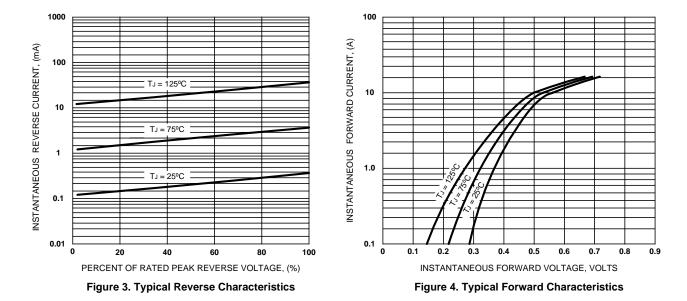


Figure 2. Maximum Non-repetitive Surge Current



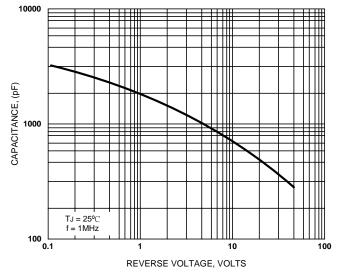
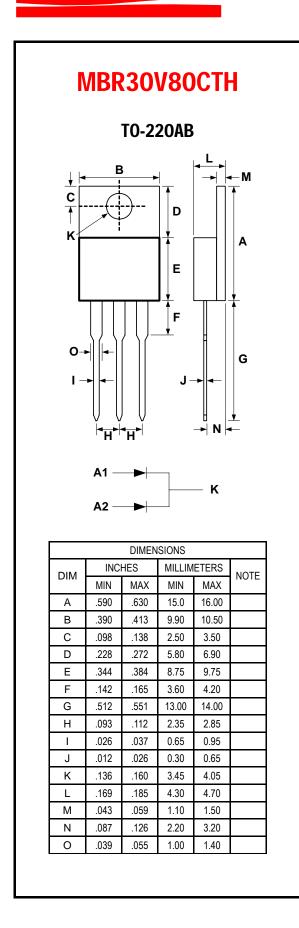
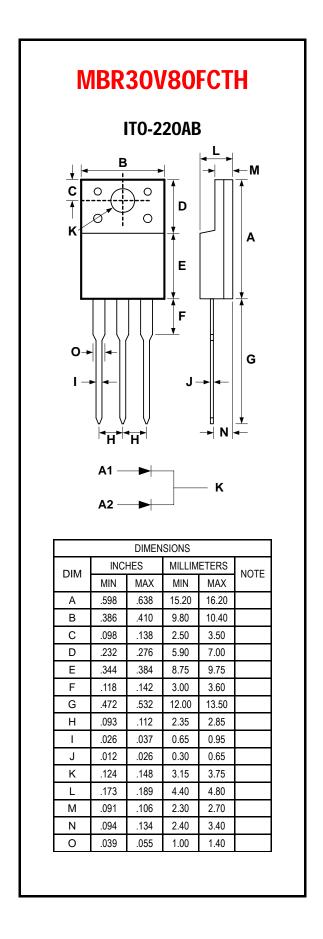


Figure 5. Typical Junction Capacitance







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