

# MBR20B150IH/DH

# Power 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

-ESD performance human body mode > 6 KV

-Halogen-Free

#### ☐ Application

-AC/DC Switching Adaptor and other Switching Power Supply

# Absolute maximum ratings

Symbol	Ratings	Unit	Conditions	
lF(AV)	20	А	Average Forward Current	
Vrrm	150	V	Repetitive Peak Reverse Voltage	
IFSM	150	А	Peak Forward Surge Current	
VF	0.69	V	Forward Voltage Drop	
Tj, Tstg	-50 to +175	°C	Operating and Storage Temperature	

### Electrical characteristics

Parameters	Symbol	Ratings	Conditions
			Per Leg at IF = 10A
Maximum Instantaneous Forward Voltage	VF	0.88V	Tc = 25°C
		0.69V	Tc = 125°C
			Per Leg at VR = 150V
Maximum Reverse Leakage Current	lr	0.05mA	Tc = 25°C
		10mA	Tc = 125°C
			Per Leg
Typical Thermal Resistance, Junction to Case	Rθ (j-c)	7 °C/W	TO-251 / TO-252

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

2.Reverse Surge 1.5A @ 0.004ms, 10 cycle

3.Repetitive Peak Reverse Current (IRRM) 0.5A @ Per Leg at tp = 2µs, 1kHz

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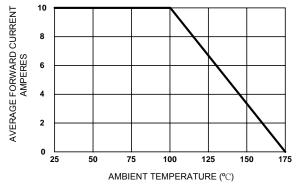


Figure 1. Forward Current Derating Curve

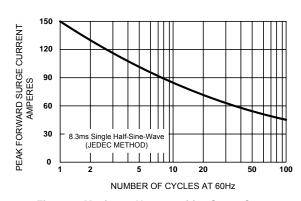
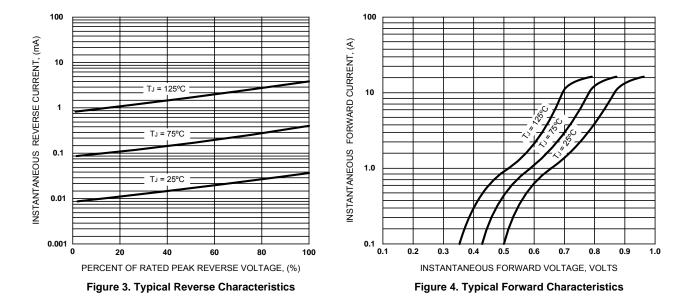


Figure 2. Maximum Non-repetitive Surge Current



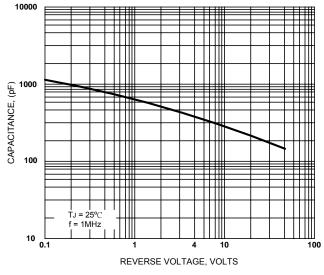
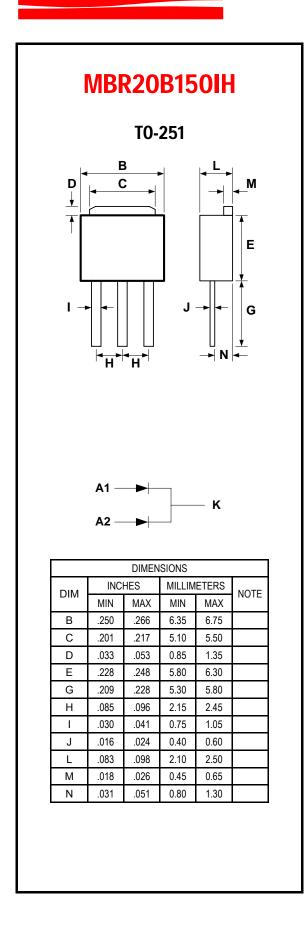
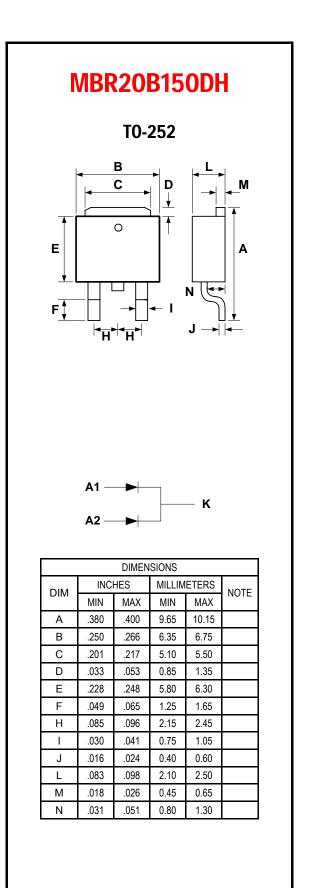


Figure 5. Typical Junction Capacitance







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