

# MBR10B100IH/DH

# Power Schottky Rectifier - 10Amp 100Volt

#### 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 > 8 KV

-Halogen-Free

#### □ Application

-AC/DC Switching Adaptor and other Switching Power Supply

Symbol	Ratings	Unit	Conditions
lf(AV)	10	А	Average Forward Current
Vrrm	100	V	Repetitive Peak Reverse Voltage
IFSM	120	А	Peak Forward Surge Current
VF	0.66	V	Forward Voltage Drop
Tj, Tstg	-50 to +175	°C	Operating and Storage Temperature

#### ☐ Absolute maximum ratings

### Electrical characteristics

Parameters	Symbol	Ratings	Conditions
			Per Leg at IF = 5A
Maximum Instantaneous Forward Voltage	VF	0.82V	Tc = 25°C
		0.66V	Tc = 125°C
			Per Leg at VR = 100V
Maximum Reverse Leakage Current	lr	0.05mA	Tc = 25°C
		10mA	Tc = 125°C
Tunical Thermal Desistance, Junction to Case	Rθ (j-c)		Per Leg
Typical Thermal Resistance, Junction to Case		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 2.0A @ 0.004ms, 10 cycle

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

December 2018 / Rev.7.2

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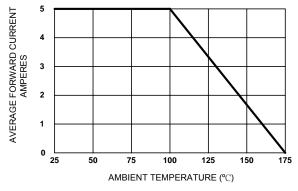


Figure 1. Forward Current Derating Curve

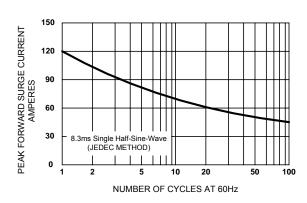
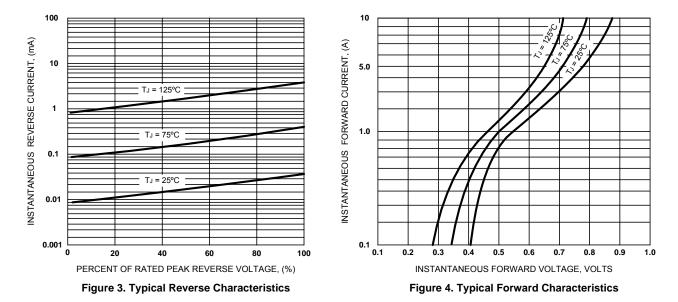


Figure 2. Maximum Non-repetitive Surge Current



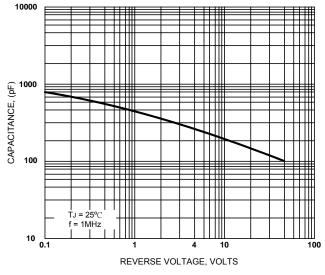
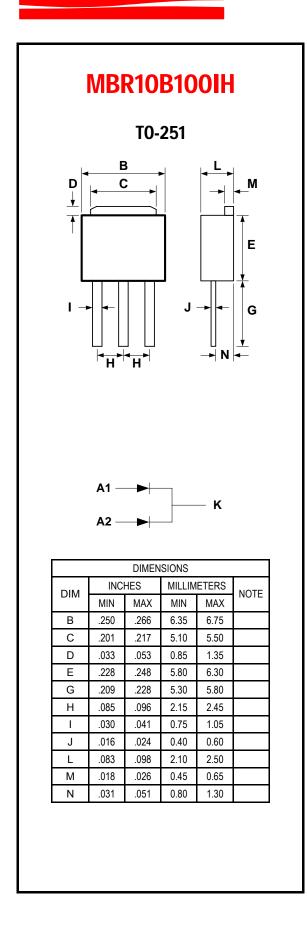
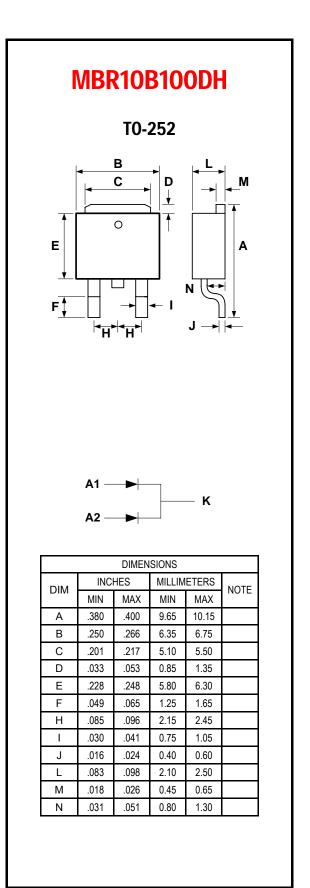


Figure 5. Typical Junction Capacitance







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