

Schottky Barrier Rectifier

MBR20150CD

FEATURES

- Multilayer Metal -Silicon Potential Structure.
- Low Leakage Current.
- · High Current Capability, High Efficiency.
- · High Junction Temperature Capability.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.

PIN:1 Anode 2 Cathode 3 Anode

APPLICATIONS

 For use in low voltage, high frequency inverters, free wheeling and polarity protection applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	Peak Repetitive Reverse Voltage	150	V
I _{F(AV)}	Average Rectified Forward Current	20	А
I _{FSM}	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	290*2	А
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-40~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.0	°C/W

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤1%)

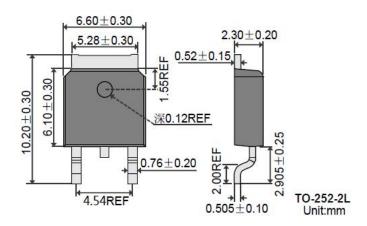
SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 10A ; Tc= 25℃	0.9	V
		I _F = 10A ; Tc= 125℃	0.78	
I _R	Maximum Instantaneous Reverse Current	V _R = 150V; Tc= 25°C	0.01	- mA
		V _R = 150V; Tc= 125℃	10	



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PACKAGE OUTLINE DIMENSIONS





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