

# **Schottky Barrier Rectifier**

# MBR20100CD

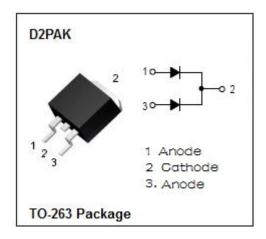
### FEATURES

- Plastic material used carriers Underwriter Laboratory
- Metal silicon junction, majority carrier conduction
- Low Power Loss, high Efficiency
- Guard ring for overvoltage protection
- High Surge Capability, High Current Capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### 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 <sub>RRM</sub> Vr	Peak Repetitive Reverse Voltage DC Blocking Voltage	100	V
I <sub>F(AV)</sub>	Average Rectified Forward Current	20	А
IFSM	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	240*2	A
TJ	Max.Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature Range	-40~150	°C

#### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	2	°C/W

### ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	МАХ	UNIT
VF	Maximum Instantaneous Forward Voltage	I⊧= 10A ; Tc= 25 ℃	0.85	- V
		I <sub>F</sub> = 10A ; Tc= 125℃	0.72	
I <sub>R</sub>	Maximum Instantaneous Reverse Current	V <sub>R</sub> = 100V;Tc= 25℃	0.01	mA
		V <sub>R</sub> = 100V;Tc= 125℃	10	

isc website: <u>www.iscsemi.com</u>

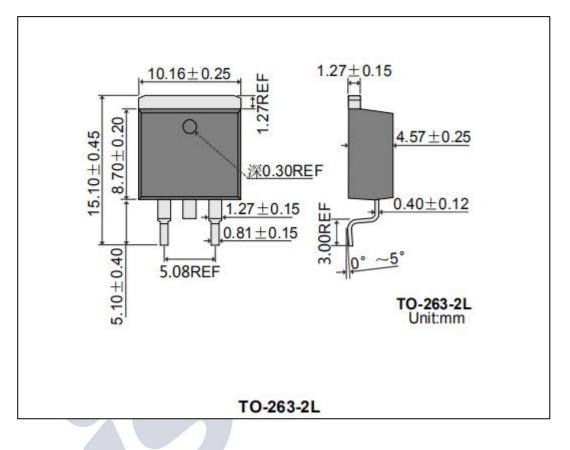
<sup>1</sup> *isc & iscsemi* is registered trademark



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## PACKAGE OUTLINE DIMENSIONS



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