

Schottky Barrier Rectifier

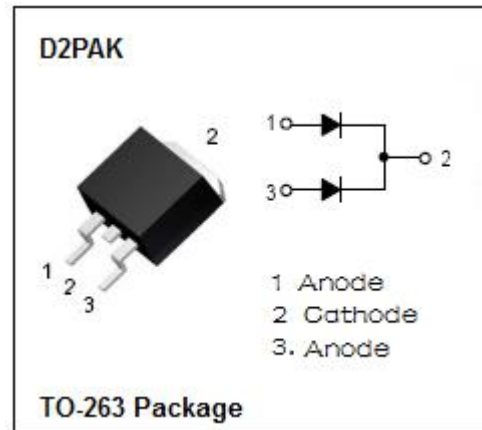
MBR20100CD

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°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _R	Peak Repetitive Reverse Voltage DC Blocking Voltage	100	V
I _{F(AV)}	Average Rectified Forward Current	20	A
I _{FSM}	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	240*2	A
T _J	Max.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	2	°C/W

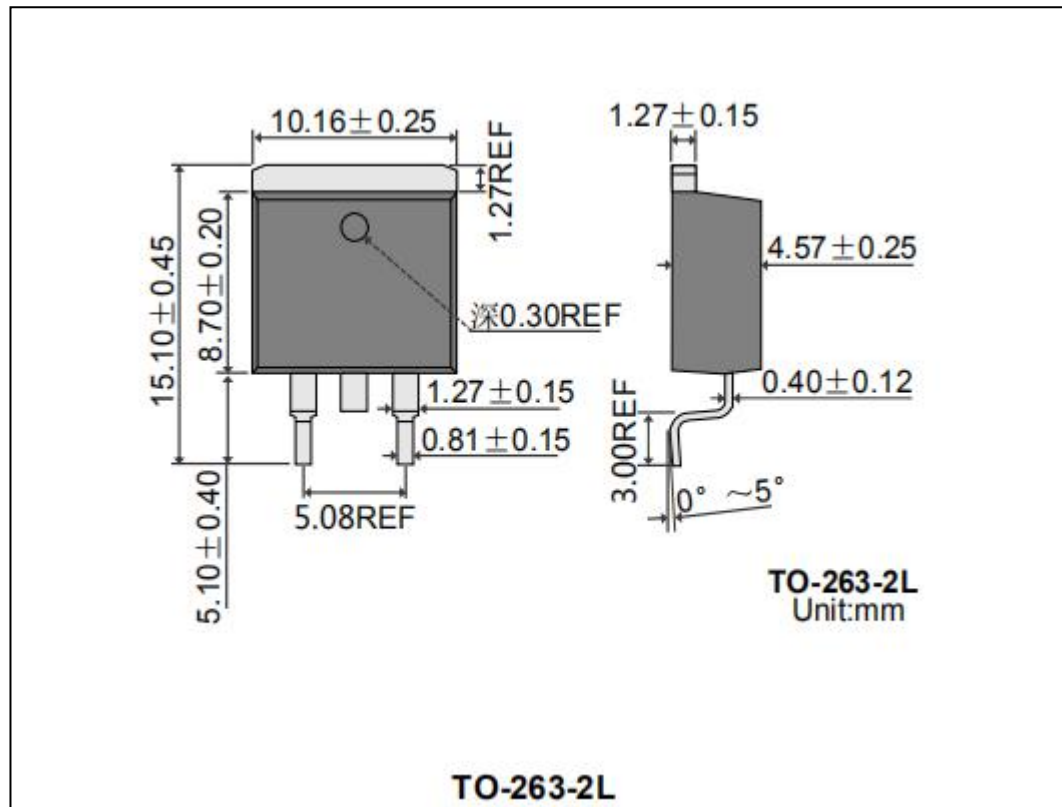
ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 10A ; T _c = 25°C	0.85	V
		I _F = 10A ; T _c = 125°C	0.72	
I _R	Maximum Instantaneous Reverse Current	V _R = 100V;T _c = 25°C	0.01	mA
		V _R = 100V;T _c = 125°C	10	

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PACKAGE OUTLINE DIMENSIONS

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