

Schottky Barrier Rectifier

INCHANGE SEMICONDUCTOR

MBRB10200

FEATURES

- With TO-263(D2PAK) packaging
- · Low leakage current, low power loss, high efficiency
- High frequency operation
- High surge capability
- · Low stored charge majority carrier conduction
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

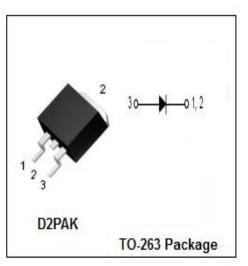
APPLICATIONS

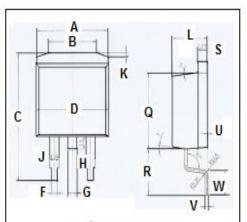
- Switching power supply
- High frequency inverters
- Freewheeling diodes
- Reverse battery protection
- Polarity protection applications

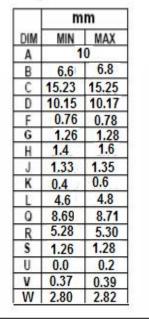
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNI T
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	200 140 200	V
I _{F(AV)}	Average Rectified Forward Current@Tc=125°C	10	A
IFSM	Nonrepetitive Peak Surge Current (8.3ms single half sine-wave superimposed on rated load conditions)	150	A
TJ	Junction Temperature	-65~150	°C
T _{stg}	Storage Temperature Range	-65~175	°C

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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	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	МАХ	UNIT
VF	Maximum Instantaneous Forward Voltage	I⊧= 10A ;Tc= 25°C	0.95	V
IR	Maximum Instantaneous Reverse Current	V _R = rated V _{RRM} ; Tc= 25°C V _R = rated V _{RRM} ; Tc= 125°C	0.5 50	mA

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