

Schottky Barrier Rectifier

MBR10200CS2

FEATURES

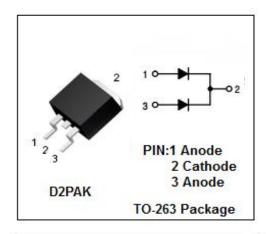
- · With TO-263 packaging
- · High junction temperature capability
- · Low forward voltage drop
- High current capability
- · Low power loss, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

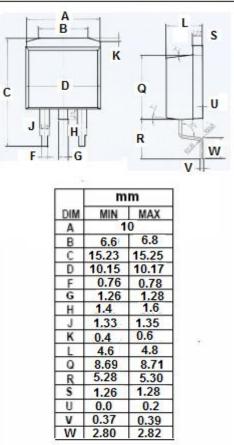


- Switching power supply
- · Free-Wheeling diodes
- Reverse battery protection
- Center tap configuration



SYMBOL	PARAMETER	VALUE	UNI T
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	200	V
I _{F(AV)}	Average Rectified Forward Current@Tc=140℃	5	Α
I _{FSM}	Nonrepetitive Peak Surge Current (8.3ms single half sine-wave superimposed on rated load conditions)	100	А
TJ	Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-50~150	$^{\circ}$







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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	2.0	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 5A ; Tc= 25 ℃	0.95	V
		I _F = 5A ; Tc= 125 ℃	0.85	
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ;Tc= 25 °C	0.15	mA
		V _R = V _{RWM} ;Tc= 125°C	15	

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