

Schottky Barrier Rectifier

MBRS1060CT

FEATURES

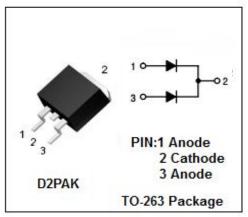
- With TO-263 packaging
- · High junction temperature capability
- · Low forward voltage drop
- High current capability
- · Low power loss, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

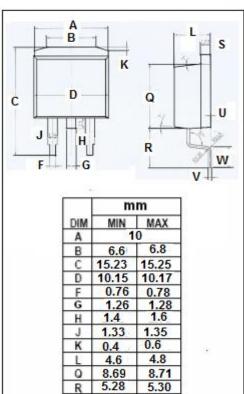
APPLICATIONS

- 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	60	V
I _{F(AV)}	Average Rectified Forward Current@Tc=136℃	10	Α
I _{FSM}	Nonrepetitive Peak Surge Current (8.3ms single half sine-wave superimposed on rated load conditions)	150	Α
T _J	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~175	℃





1.28

0.2

1.26 0.0

0.37

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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°C	0.80	V
		I _F = 5A ; Tc= 125°C	0.65	
lr	Maximum Instantaneous Reverse Current	V _R = V _{RWM;} Tc= 25°C	0.1	mA
		V _R = V _{RWM} ;Tc= 125°C	6	



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