

Schottky Barrier Rectifier

MBRB60H100CT

FEATURES

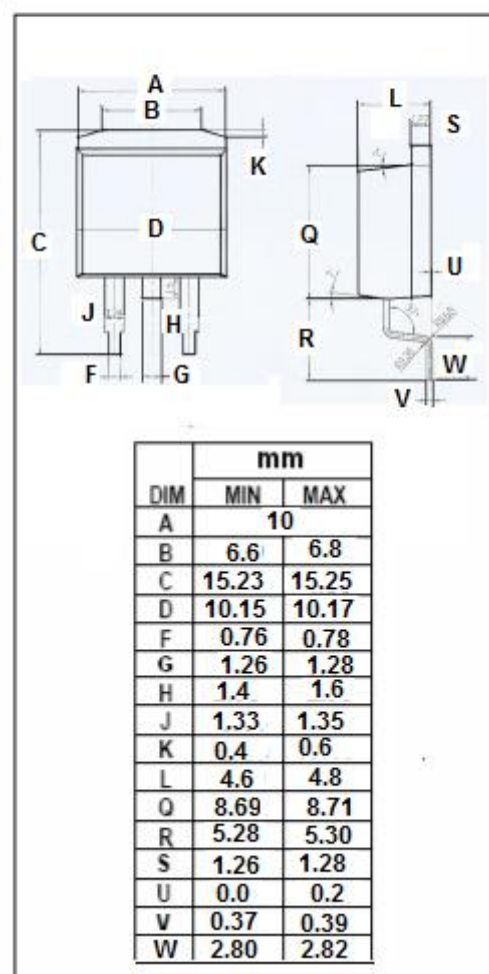
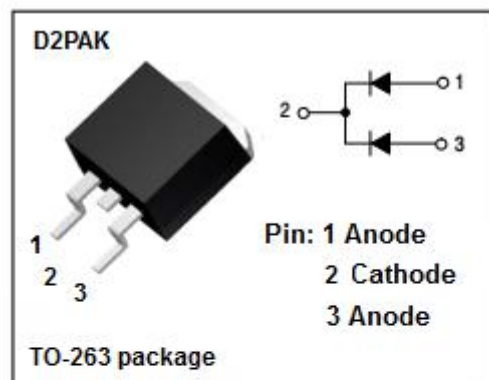
- Schottky barrier chip
- Low Power Loss, High Efficiency
- Guard ring for transient protection
- High Operating Junction Temperature
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- For use in high frequency rectifier of switching mode power supplies, freewheeling diodes, DC-to-DC converters or polarity protection application.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	100	V
I _{F(AV)}	Average Rectified Forward Current	60	A
I _{FSM}	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	350	A
T _J	Junction Temperature	175	°C
T _{stg}	Storage Temperature Range	-65~175	°C



Schottky Barrier Rectifier**MBRB60H100CT****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	1.0	$^{\circ}\text{C}/\text{W}$

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	TYP	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F=30\text{A}; T_J=125^{\circ}\text{C}$		0.84	V
		$I_F=30\text{A}; T_J=125^{\circ}\text{C}$		0.72	
		$I_F=60\text{A}; T_J=25^{\circ}\text{C}$		0.98	
		$I_F=60\text{A}; T_J=125^{\circ}\text{C}$		0.84	
I_R	Maximum Instantaneous Reverse Current	$V_R=V_{RWM}; T_J=25^{\circ}\text{C}$		10	μA
		$V_R=V_{RWM}; T_J=125^{\circ}\text{C}$		10	mA