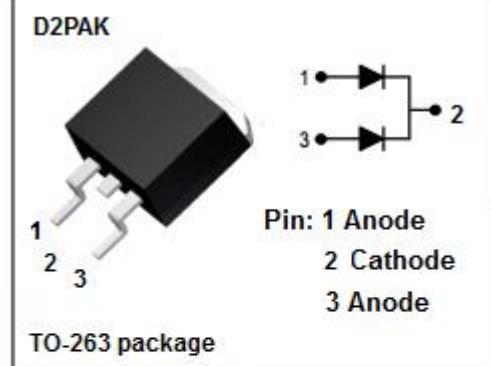


Schottky Barrier Rectifier

MBRB3030CT

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

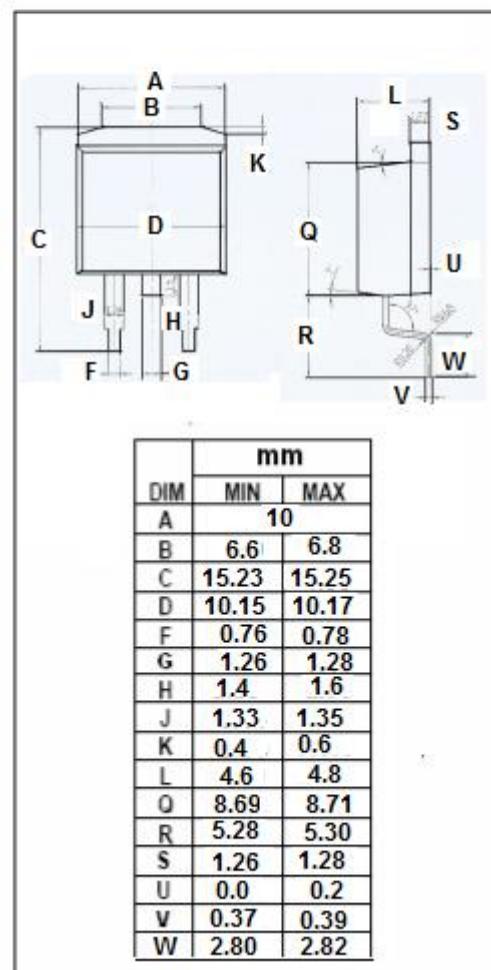


APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	Peak Repetitive Reverse Voltage		
V _{RMS}	RMS Voltage	30	V
V _R	DC Blocking Voltage		
I _{F(AV)}	Average Rectified Forward Current	30	A
I _{FSM}	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	200	A
T _J	Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



Schottky Barrier Rectifier**MBRB3030CT****THERMAL CHARACTERISTICS**

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

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	TYP	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F=15A ; T_j=25^\circ C$		0.54	V
		$I_F=15A ; T_j= 150^\circ C$		0.47	
		$I_F=30A ; T_j= 25^\circ C$		0.67	
		$I_F=30A ; T_j= 150^\circ C$		0.66	
I_R	Maximum Instantaneous Reverse Current	$V_R= V_{RWM}; T_j= 25^\circ C$		600	uA
		$V_R= V_{RWM}; T_j= 125^\circ C$		145	mA