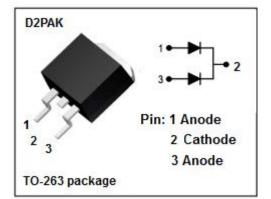


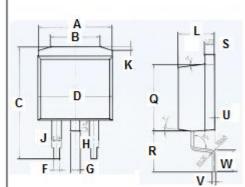
Schottky Barrier Rectifier

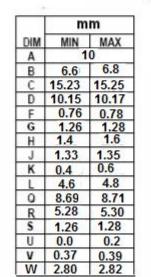
MBR20100CTB

FEATURES

- · Schottky barrier chip
- Low Power Loss, High Efficiency
- · Guard ring for transient protection
- High Operating Junction Temperature
- 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℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	100	V
IF(AV)	Average Rectified Forward Current	20	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



INCHANGE SEMICONDUCTOR

Schottky Barrier Rectifier

MBR20100CTB

THERMAL CHARACTERISTICS

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

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER			CONDITIONS	ТҮР	МАХ	UNIT
VF	Maximum Instantaneou Voltage		Forward	I _F =10A ; Tj=25℃		0.85	- V
		Instantaneous		I _F =10A ; Tj= 125℃		0.75	
				I _F =20A ; Tj= 25℃		0.95	
				I _F =20A ; Tj= 125℃		0.85	
I _R	Maximum Current	Instantaneous	Reverse	V _R = V _{RWM;} Tj= 25℃		0.1	mA
				V _R = V _{RWM;} Тј= 125°С		6	mA

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