MBRB2030CT THRU MBRB2045CT

Surface Mount Schottky Barrier Recitifiers

Reverse Voltage - 30 to 45 Volts Forward Current - 20.0 Amperes

Features

- Low forward voltage drop
- High current capability
- High surge capability
- The plastic material carries UL recognition 94V-0

Mechanical Data

- ◆Case: JEDEC D²PAK molded plastic
- Polarity: As marked on the body
- Mounting position: Any

Note: Products with logo **HY** or **H**

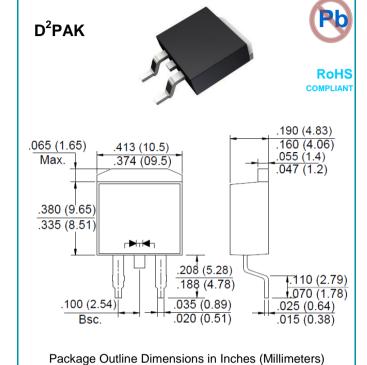




are made by HY Electronic (Cayman) Limited.

Applications

 For use in low vlotage, high frequency inverters, polarity protection applications.



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristic	Symbol	MBRB2030CT	MBRB2040CT	MBRB2045CT	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	30	40	45	V
Maximum RMS Voltage	VRMS	21	28	31.5	V
Maximum DC Blocking Voltage	VDC	30	40	45	V
Maximum Average Forward Rectified Current	I(AV)	20.0			Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM		150		Α
Superimposed on Rated Load (JEDEC Method)	IFSIVI	130		^	
Peak Forward Voltage (Note1) IF=10A @TJ=25℃	VF	0.65		V	
IF=10A @TJ=125℃		0.57			
IF=20A @TJ=25℃		0.84			
IF=20A @TJ=125℃		0.72			
Maximum DC Reverse Current @TJ=25°C	lr.	0.1		mA	
at Rated DC Blocking Voltage @TJ=125℃	IK	15			
Typical Thermal Resistance Junction to Case (without heatsink) (Note2)	Rejc	9			°C/W
Junction Temperature Range	TJ	-55 to +150			$^{\circ}\!\mathbb{C}$
Storage Temperature Range	Тѕтс		-55 to +175	$^{\circ}\mathbb{C}$	

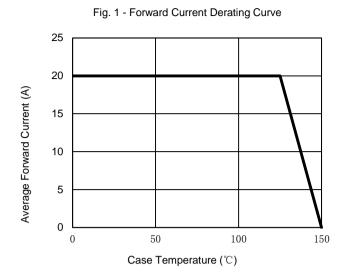
Notes: 1. 300us pulse width,2% duty cycle.

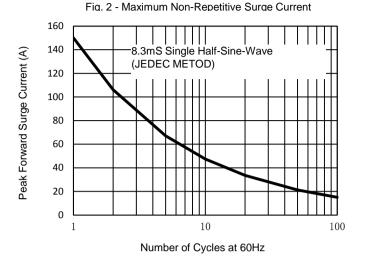
2. The typical data above is for reference only.

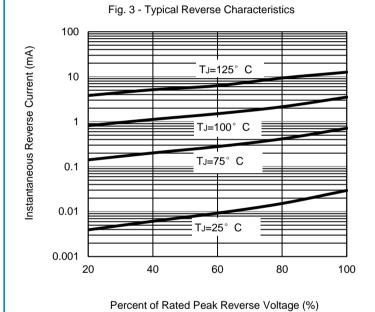
MBRB20*CT-U-00-00 Rev. 11, 18-May-2020

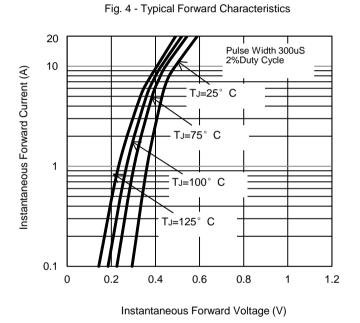
Rating and Characteristic Curves MBRB2030CT THRU MBRB2045CT













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