

MBRF30150CT thru MBRF30200CT

Schottky Barrier Recitifiers

Reverse Voltage - 150 to 200Volts Forward Current - 30.0 Amperes

FEATURES

- Schottky Barrier Chip
- Guardring for transient protection
- Low power loss, high efficiency
- ●Low Reverse Leakage Current
- High surge Current capacity
- Plastic package has UL flammability classification 94V-0.

MECHANICAL DATA

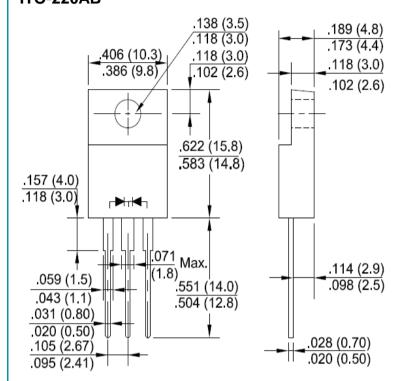
- ●Case: ITO-220AB molded plastic
- ◆Polarity: As marked
- Mounting position :Any
- ●Terminals:Pure tin Plated ,Lead free Solderable per MIL-STD-750, Method 2026

Note: Products with logo are made by HY Electronic (Cayman) Limited.

TYPICAL APPLICATIONS

For use in low voltage, high frequency inverters mode power supplies,freewheeling diode, and polarity protection application

ITO-220AB



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

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

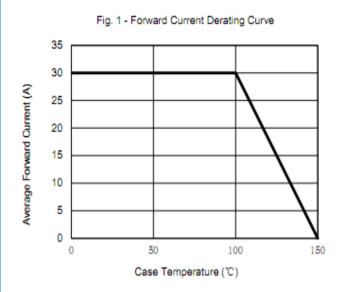
For capacitive load, derate current by 20%

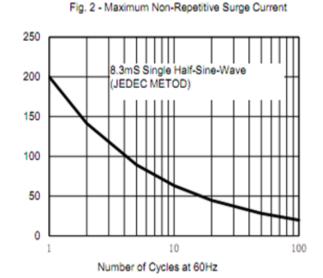
CHARACTERISTICS	SYMBOL	MBRF30150CT	MBRF30200CT	UNIT
Maximum Recurrent Peak Reverse Voltage	Vrrm	150	200	V
Maximum RMS Voltage	VRMS	105	140	V
Maximum DC Blocking Voltage	VDC	150	200	V
Maximum Average Forward	I(AV)	30		А
Non-Repetitive Peak Forward Surge Current				
8.3ms Single Half Sine-Wave	IFSM	200		А
Super Imposed on Rated Load (JEDEC Method)				
Forward Voltage at 15A	VF	0.95		V
Peak Reverse Current @TJ=25℃	lr -	C	0.1	
at Rated DC Bolcking Voltage @TJ=100℃	IR	20		mA
Typical Thermal Resistance Junction to Case	Rejc	1.5		°C/W
Operating Temperature Range	TJ	-55 to +150		°C
Storage Temperature Range	Тѕтс	-55 to	o +150	$^{\circ}$

Note: Measured at 1.0MHZ and applied reverse voltage of 4.0V DC.

MBRF30*CT-U-N00-00 Rev. 1, 26-May-2020









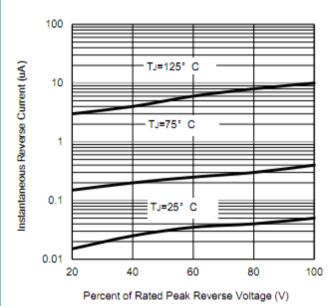
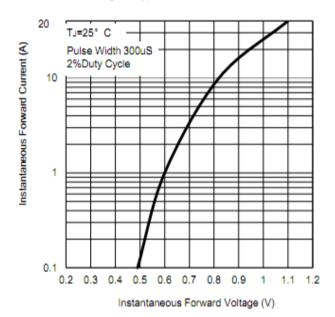


Fig. 4 - Typical Forward Characteristics





Disclaimer

ALL specifications and data are subject to be changed without notice to improve reliability function or design or other reasons.

HY makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the cotinuing production of any product. To the maximum extent permitted by applicable law, HY disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on HY's knowledge of typical requirements that are often placed on HY products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify HY's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, HY products are not designed for use in medical, life-saving, or life-sustaining applications or for any other applications in which the failure of the HY product could result in personal injury or death. Customers using or selling HY products not expressly indicated for use in such applications do so at their own risk. Please contact authorized HY personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of HY. Product names and markings noted herein may be trademarks of their respective owners.