



Schottky Barrier Rectifiers

Reverse Voltage - 60 Volts Forward Current - 30.0 Amperes

FEATURES

- Schottky Barrier Chip
- Guard ring for Overvoltage protection
- Low Power loss, High Efficiency
- ■Low Reverse Leakage Curren
- High Surge Capacity
- Plastic Material has UL Flammability
 Classification 94V-0.

MECHANICAL DATA

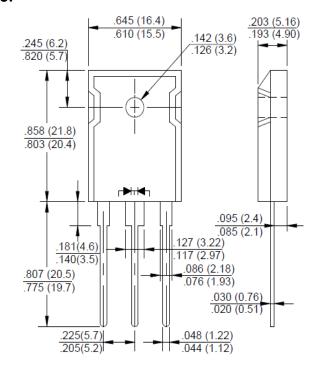
- ●Case: TO-3P molded plastic
- Polarity: As markedMounting position :Any
- ●Terminals:Pure tin Plated,Lead free Solderable per

MIL-STD-750, Method 2026

TYPICAL APPLICATIONS

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

TO-3P



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%

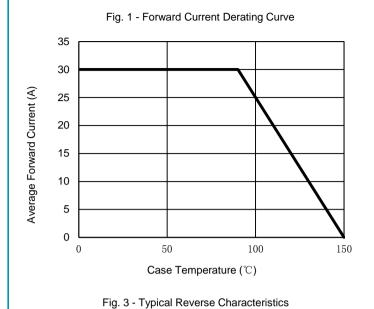
CHARACTERISTICS	SYMBOL	MBR3060PT	UNIT
Maximum Recurrent Peak Reverse Voltage	Vrrm	60	V
Maximum RMS Voltage	VRMS	42	V
Maximum DC Blocking Voltage	VDC	60	V
Maximum Average Forward(See Figure)	lf(AV)	30	Α
Peak Forward Surge Current			
8.3ms Single Half Sine-Wave	IFSM	250	Α
Super Imposed on Rated Load (JEDEC Method)			
Maximum Forward Voltage at 15A per leg	VF	0.8	V
Maximum DC Reverse Current @TJ=25℃	lr -	0.1	mA
Rated DC Bolcking Voltage @TJ=125℃	IK .	20	
Typical Thermal Resistance to amibient	Reja	40.0	°C/W
Typical Thermal Resistance to case	Rejc	2.2	°C/W
Operating Temperature Range	TJ	-55 to +150	$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150	$^{\circ}$

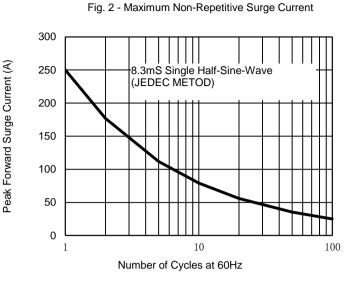
NOTE: The typical data above is for reference only.

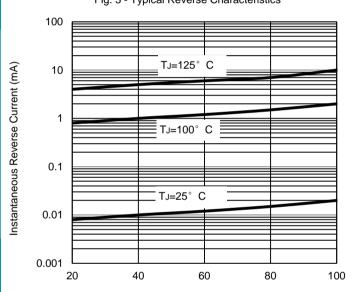
RATING AND CHARACTERTIC CURVES

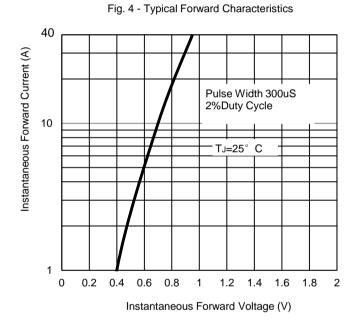
MBR3060PT











Percent of Rated Peak Reverse Voltage (%)



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.