## 25PV080 THRU 25PV100

# Photovoltaic Solar Cell Protection Schottky Diode

## Reverse Voltage - 80 to 100Volts Forward Current - 25.0 Amperes

#### **Features**

- Low power loss, high efficiency
- High current capability, low V<sub>F</sub>
- High surge capacity

#### **Mechanical Data**

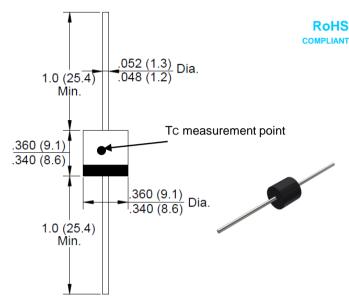
- Case: JEDEC R-6 molded plastic
- Polarity: Color band denotes cathode
- Mounting position: Any

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

## **Applications**

• For use in solar cell junction box as a bypass diode

# R- 6



Package Outline Dimensions in Inches (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%.

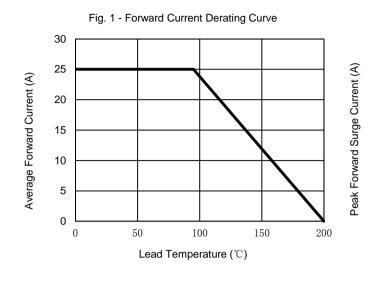
Symbol	25PV080	25PV100	Unit
VRRM	80	100	V
VRMS	56	70	V
VDC	80	100	V
l(AV)	25		Α
lғsм	400		А
ln.	0.5 50		mA
IK			
Rejl	1.8		°C/W
TJ	-55 to +200		$^{\circ}$
Тѕтс	-55 to +200		$^{\circ}$
	VRRM VRMS VDC I(AV) IFSM VF IR ROJL TJ	VRMM 80  VRMS 56  VDC 80  I(AV)  IFSM 4  VF (1)  IR  Reul  TJ -55 t	VRRM     80     100       VRMS     56     70       VDC     80     100       I(AV)     25       IFSM     400       VF     0.8       IR     50       ReJL     1.8       TJ     -55 to +200

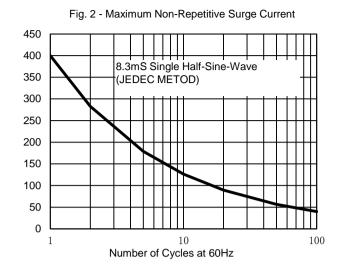
Notes: 1. 300uS pulse width, 2%duty cycle.

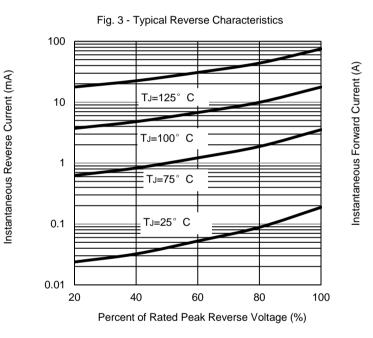
- 2. Thermal Resistance Junction to lead / terminal at a distance 1mm from case.
- 3. The typical data above is for reference only .

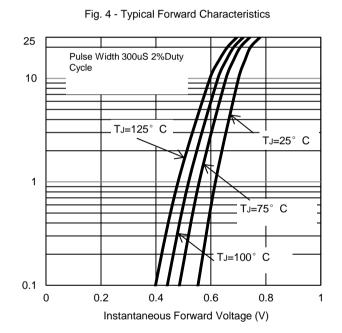
25PV0\*-A-00-00 Rev. 11, 18-May-2020











The curve above is for reference only.



#### **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.