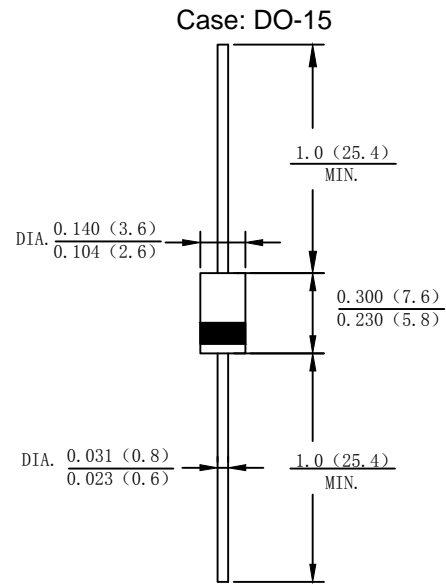# HER201G THRU HER208G

2.0 AMP. GlassHigh Efficient Rectifiers

Features

- Low power loss.
- High current capability
- High reliability
- High surge current capability
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: Molded plastic DO-15
- Terminals: Plated leads solderable per
  MIL-STD-202,Method 208 guaranteed
- Polarity: Color band dentes cathode end
- Mounting Position: Any
- Making: Type Number
- Lead Free: For RoHS/Lead Free Version

Case: DO-15

DIA. $\frac{0.140\ (3.6)}{0.104\ (2.6)}$

$\frac{1.0\ (25.4)}{MIN.}$

$\frac{0.300\ (7.6)}{0.230\ (5.8)}$

DIA. $\frac{0.031\ (0.8)}{0.023\ (0.6)}$

$\frac{1.0\ (25.4)}{MIN.}$

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified

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

For capacitive load derate current by 20%

Type Number	SYMBOL	HER 201G	HER 202G	HER 203G	HER 204G	HER 205G	HER 206G	HER 207G	HER 208G	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RM}	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	V
Average Rectified Output Current (Note 1) @T_L=100℃	$I_{F(AV)}$	2.0								A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50								A
I^2t Rating for Fusing (t < 8.3ms)	I^2t	10.375								A^2s
Forward Voltage @IF=2.0A	V_{FM}	1.0			1.3			1.7		V
Peak Reverse Current @T_A=25℃	I_R	5.0								uA
At Rated DC Blocking Voltage @T_A=125℃		100								
Maximum Reverse Recovery Time (Note2)	T_{RR}	50					75			nS
Typical Junction Capacitance (Note 3)	C_j	15								pF
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	65								℃/W
Operating Temperature Range	T_j	-55 to + 150								℃
Storage Temperature Range	T_{STG}	-55 to + 150								℃

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

   2.Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

   3. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

Fig. 1 Forward Current Derating Curve

Average Forward Current (A) vs T_L Lead Temperature(°C)
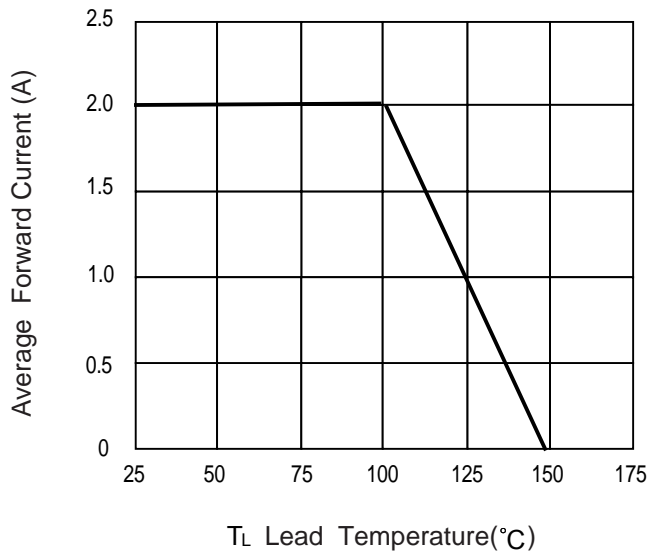
Fig. 2 Typ. Forward Characteristics

Instantaneous Forward Current (A) vs V_F, Instantaneous Forward Voltage (V)

HER201G-HER203G

HER204G
HER205G

HER206G-HER208G

$T_J = 25°$

PULSE WIDTH 300us
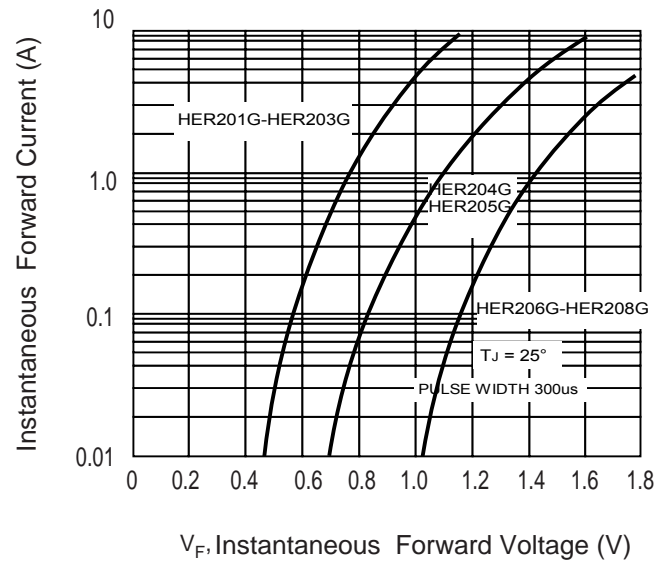
Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

I_{FSM}, Peak Forward Surge Current (A) vs Number Of Cycles At 60 Hz

PULSE WIDTH 8.3ms
SINGLE HALF-SINE-WAVE
(JEDEC METHOD)
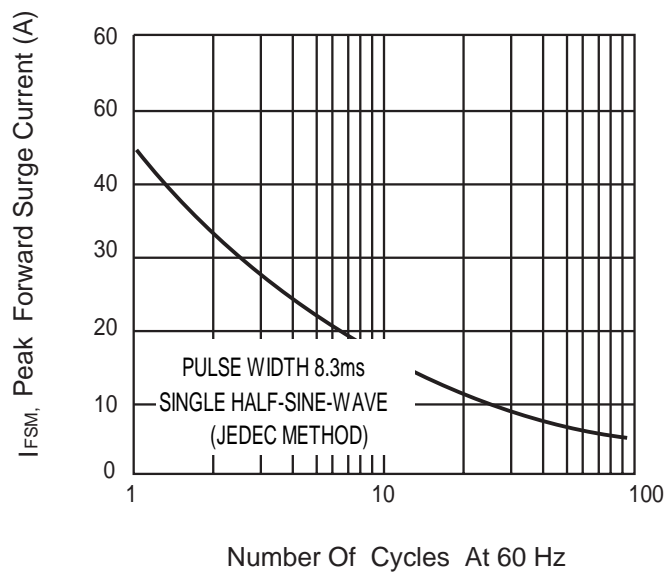
Fig.4 Typical Reverse Chracteristics (per element)

Instantaneous Reverse Current (uA) vs Percent Of Rated Peak Reverse Voltage (%)

$T_J = 125°C$

$T_J = 25°C$
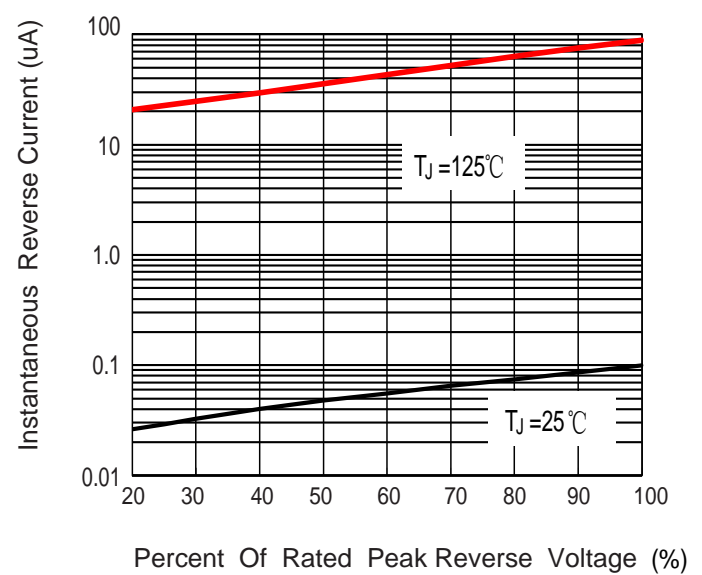
Important Notice and Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from XINNUO

- XINNUO reserves the right to make changes to this document and its products and specifications

- XINNUO disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.

- XINNUO does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

- Applications shown on the here in document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications.

  XINNUO makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

- The products shown here in are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk andagree to fully indemnify XINNUO for any damages resulting from such improper use or sale.

- Since XINNUO uses lot number as the tracking base, please provide the lot number for tracking when complaining.