

## **HER20XG / UF200XG SERIES**

### **High Efficiency Glass Passivated** Rectifiers

## Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Ampere

#### **Features**

- Low cost
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

#### **Mechanical Data**

- Case: JEDEC DO-15 Molded plastic
- Polarity: Color band denotes cathode
- Mounting position: Any



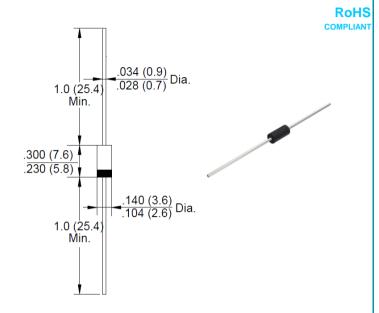
are made by HY Electronic (Cayman) Limited.

## **Applications**

• For use in SMPS, high frequency inverters, PWM and polarity protection applications

#### **DO-15**





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%.

Characteristics	Symbol	HER 201G	HER 202G	HER 203G	HER 204G	HER 205G	HER 206G	HER 207G	HER 208G	- Unit
		UF 2001G	UF 2002G	UF 2003G	UF 2004G	UF 2005G	UF 2006G	UF 2007G	UF 2008G	
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	200	300	400	600	800	1000	٧
Maximum RMS Voltage	VRMS	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current @Ta=50 ℃	I(AV)	2.0								Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	Ігѕм 60							А		
Superimposed on Rated Load (JEDEC Method)										
Peak Forward Voltage at 2.0 A DC	VF	1.0 1.3					1.7		V	
Maximum DC Reverse Current at Rated @Tj=25 $^{\circ}$ C	lr	5.0 100								μΑ
DC Blocking Voltage @TJ=100°C	IK									
Maximum Reverse Recovery Time (Note 1)	Trr	50 75							nS	
Typical Junction Capacitance (Note2)	Cı	50 30							pF	
Typical Thermal Resistance Junction to Ambient	Røja	25								°C/W
Operating Junction Temperature Range	TJ	-55 to +150								$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150								$^{\circ}$

Notes:1.Measured with IF=0.5A,IR=1A,IRR=0.25A.

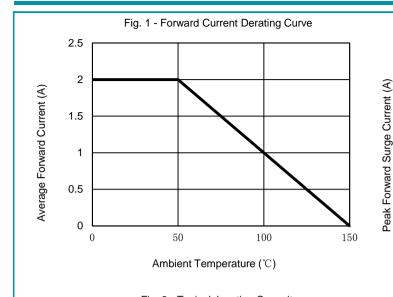
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
- 3. The typical data above is for reference only.

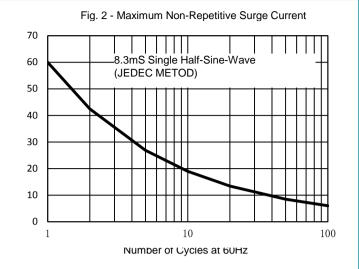
HER20\*G/UF200\*G-A//B/T-00/99-00/01

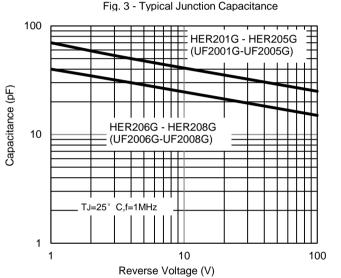
# **Rating and Characteristic Curves**

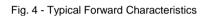
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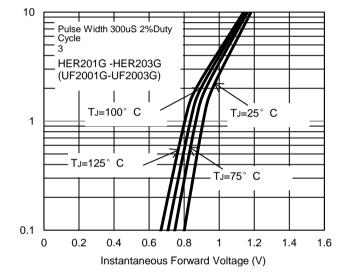














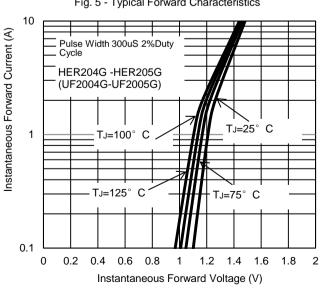
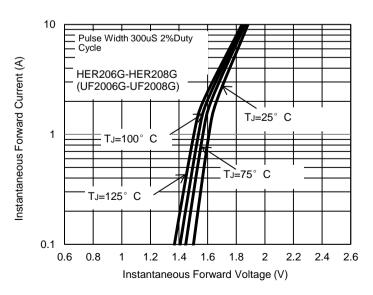


Fig. 6 - Typical Forward Characteristics



The curve above is for reference only.

HER20\*G/UF200\*G-A//B/T-00/99-00/01 Rev. 11, 18-May-2020

Instantaneous Forward Current (A)



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