

# **HER1601G - HER1608G**

## 16A HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER

#### **Features**

- Glass Passivated Die Construction
- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

### **Mechanical Data**

Case: Molded Plastic

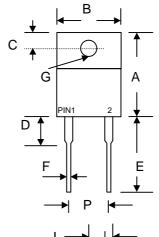
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

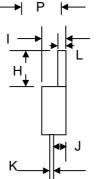
Polarity: See Diagram

Weight: 2.24 grams (approx.)

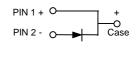
Mounting Position: Any

Marking: Type Number





TO-220A						
Dim	Min	Max				
Α	14.9	15.1				
В	_	10.5				
С	2.62	2.87				
D	3.56	4.06				
Е	13.46	14.22				
F	0.68	0.94				
G	3.74 Ø	3.91 Ø				
Н	5.84	6.86				
ı	4.44	4.70				
J	2.54	2.79				
K	0.35	0.64				
L	1.14	1.40				
Р	4.95	5.20				
All Dimensions in mm						



## Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	HER 1601G	HER 1602G	HER 1603G	HER 1604G	HER 1605G	HER 1606G	HER 1607G	HER 1608G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	50	100	200	300	400	600	800	1000	٧
RMS Reverse Voltage		VR(RMS)	35	70	140	210	280	420	560	700	V
Average Rectified Output Current @T <sub>C</sub> = 105°C		lo	16						Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		İFSM	250						Α		
Forward Voltage	@I <sub>F</sub> = 16A	VFM	1.0 1.3 1.7				V				
Peak Reverse Current At Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C @T <sub>A</sub> = 125°C	lкм	10 400			μA					
Reverse Recovery Time (Note 1)		trr	50 80				nS				
Typical Junction Capacitance (Note 2)		Cj	170 130				pF				
Operating and Storage Temperature Range		Тj, Tsтg	-65 to +150					°C			

Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

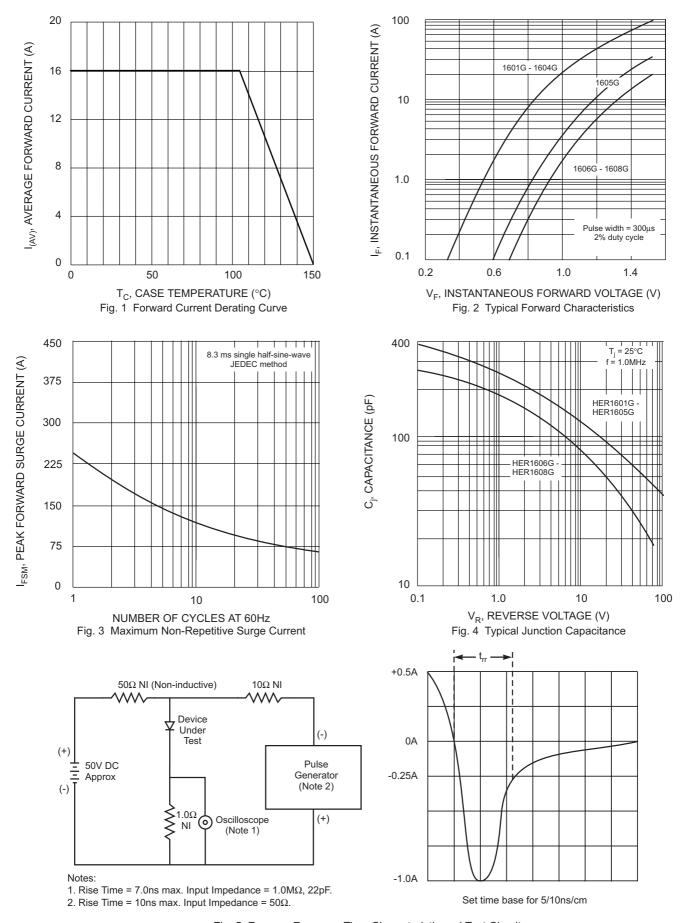


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
HER1601G	TO-220A	50 Units/Tube
HER1602G	TO-220A	50 Units/Tube
HER1603G	TO-220A	50 Units/Tube
HER1604G	TO-220A	50 Units/Tube
HER1605G	TO-220A	50 Units/Tube
HER1606G	TO-220A	50 Units/Tube
HER1607G	TO-220A	50 Units/Tube
HER1608G	TO-220A	50 Units/Tube

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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