

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

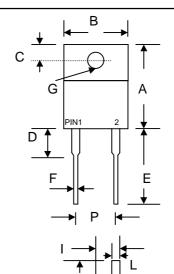
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: See Diagram

Weight: 2.24 grams (approx.)

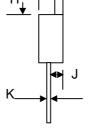
Mounting Position: Any

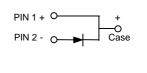
Marking: Type Number



Dim	Min	Max				
Α	14.9	15.1				
В		10.5				
C	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				
H	5.84	6.86				
-	4.44	4.70				
7	2.54	2.79				
K	0.35	0.64				
L	1.14	1.40				
P	4.95	5.20				
All Dimensions in mm						

TO-220A





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 _C = 105°C	lo	16						Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	250					Α			
Forward Voltage @I _F = 16A	VFM	1.0 1.3 1.7					V			
	lгм	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	Тј, Тѕтс	-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.

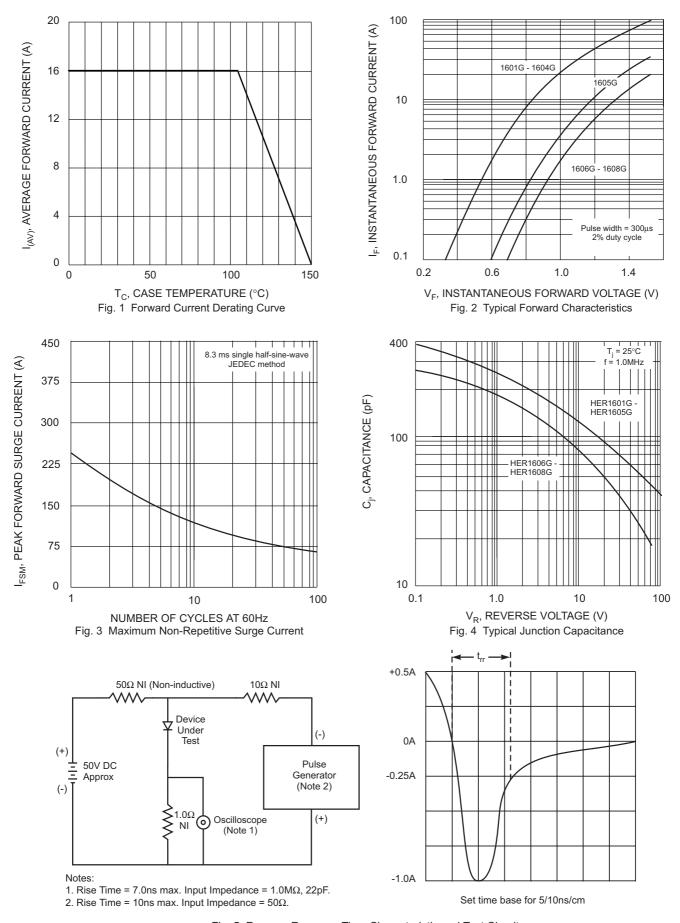


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

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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