

HER1601PT - HER1608PT

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

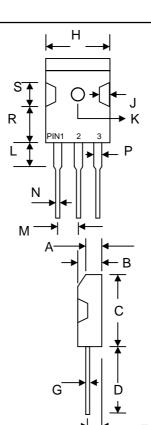
MIL-STD-750, Method 2026

Polarity: See Diagram

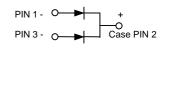
• Weight: 5.6 grams (approx.)

Mounting Position: Any

Marking: Type Number



TO-3P						
Dim	Min	Max				
Α	3.20	3.50				
В	4.59	5.16				
С	20.80	21.30				
D	19.70	20.20				
Е	2.10 2.40					
G	0.51	0.76				
Н	15.90	16.40				
J	1.70	2.70				
K	3.10 Ø	3.30 Ø				
L	3.50	4.51				
M	5.20	5.70				
N	1.12	1.22				
Р	2.90	3.30				
R	11.70 12.80					
S	S 4.30 Typical					
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 1601PT	HER 1602PT	HER 1603PT	HER 1604PT	HER 1605PT	HER 1606PT	HER 1607PT	HER 1608PT	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	٧
Average Rectified Output Current @T _C = 100°C	lo	16							Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200					Α			
Forward Voltage @I _F = 8.0A	VFM	1.0 1.3 1.7				V				
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	lгм	10 500				μA				
Reverse Recovery Time (Note 1)	trr	50 80				nS				
Typical Junction Capacitance (Note 2)	Cj	85 60					pF			
Operating and Storage Temperature Range	Тј, Тѕтс	-55 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.

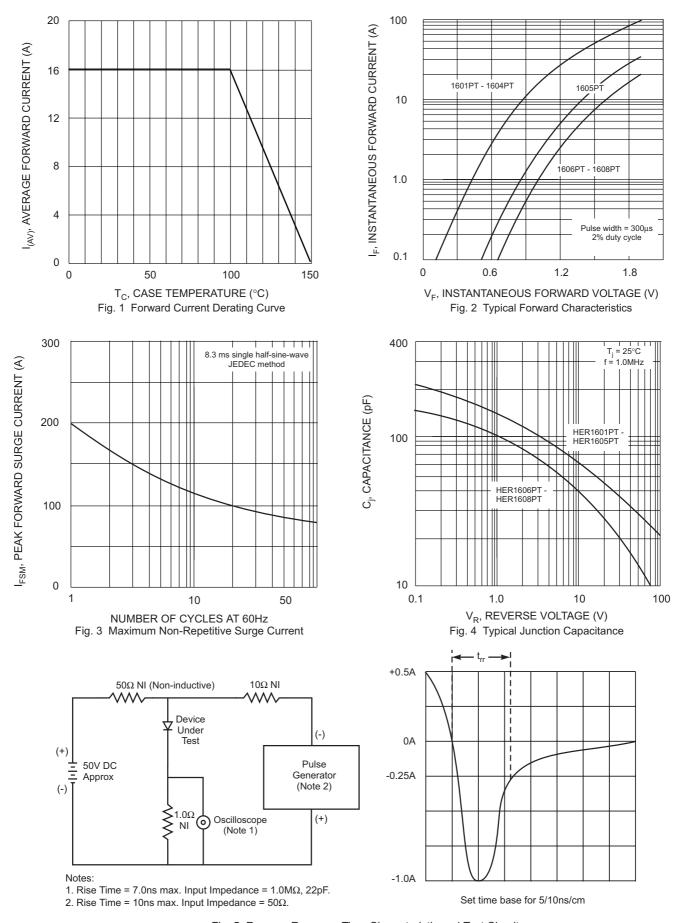


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
HER1601PT	TO-3P	30 Units/Tube
HER1602PT	TO-3P	30 Units/Tube
HER1603PT	TO-3P	30 Units/Tube
HER1604PT	TO-3P	30 Units/Tube
HER1605PT	TO-3P	30 Units/Tube
HER1606PT	TO-3P	30 Units/Tube
HER1607PT	TO-3P	30 Units/Tube
HER1608PT	TO-3P	30 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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