

HER601 - HER608

6.0A HIGH EFFICIENCY RECTIFIER

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

A B A C C

R-6 Dim Min Max Α 25.4 В 8.60 9.10 С 1.20 1.30 D 8.60 9.10 All Dimensions in mm

Mechanical Data

Case: Molded Plastic

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

Polarity: Cathode Band
Weight: 2.1 grams (approx.)
Mounting Position: Any
Marking: Type Number

Epoxy: UL 94V-O rate flame retardant

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 601	HER 602	HER 603	HER 604	HER 605	HER 606	HER 607	HER 608	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	300	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	210	280	420	560	700	V
Average Rectified Output Current (Note 1) @T _A = 55°C	lo	6.0					Α			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	200					Α			
Forward Voltage $@I_F = 6.0A$	VFM	1.0 1.3 1.7					V			
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	IRM	10.0 100					μA			
Reverse Recovery Time (Note 2)	trr	50 75					nS			
Typical Junction Capacitance (Note 3)	Cj	100 65				pF				
Operating Temperature Range	Tj	-65 to +125					°C			
Storage Temperature Range	Тѕтс	-65 to +150					°C			

*Glass passivated forms are available upon request

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

- 2. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

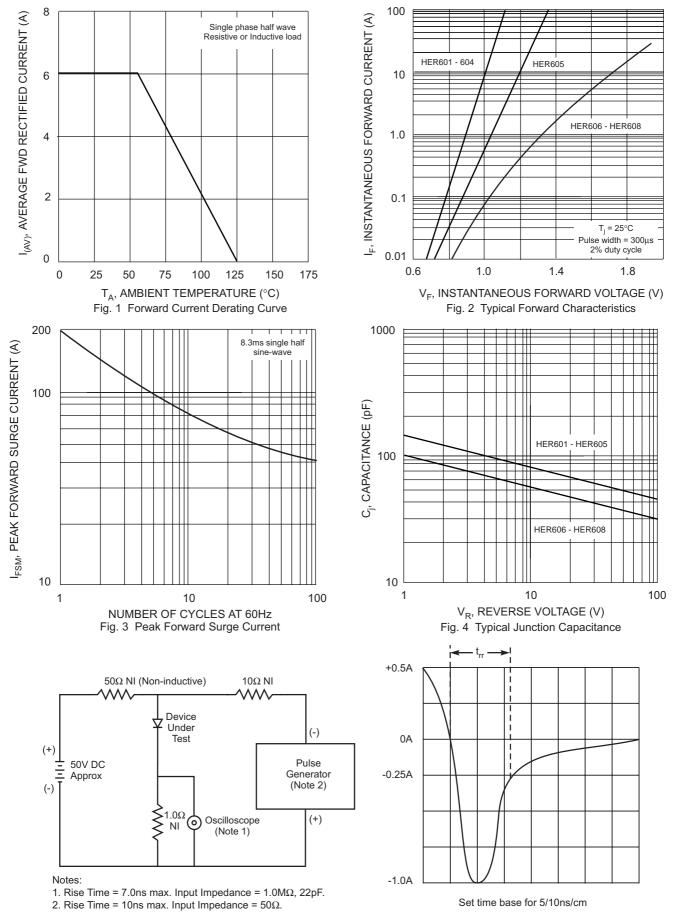


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity			
HER601-T3	R-6	800/Tape & Reel			
HER601	R-6	250 Units/Box			
HER602-T3	R-6	800/Tape & Reel			
HER602	R-6	250 Units/Box			
HER603-T3	R-6	800/Tape & Reel			
HER603	R-6	250 Units/Box			
HER604-T3	R-6	800/Tape & Reel			
HER604	R-6	250 Units/Box			
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HER606-T3	R-6	800/Tape & Reel			
HER606	R-6	250 Units/Box			
HER607-T3	R-6	800/Tape & Reel			
HER607	R-6	250 Units/Box			
HER608-T3	R-6	800/Tape & Reel			
HER608	R-6	250 Units/Box			

Products listed in **bold** are WTE **Preferred** devices. •T3 suffix refers to a 13" reel.

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