

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.

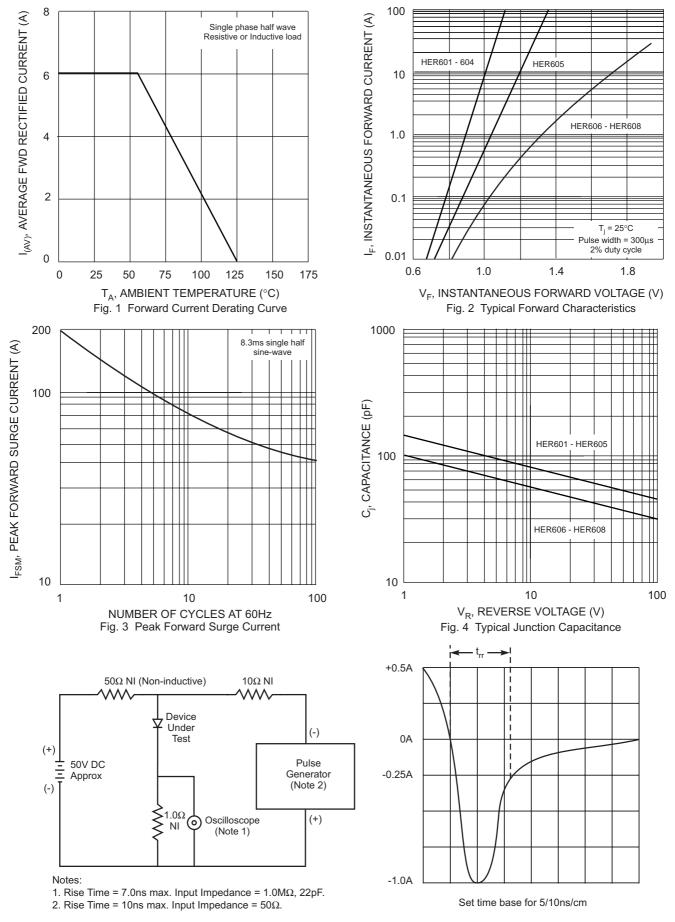


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

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 | | | |
| HER605-T3 | R-6 | 800/Tape & Reel | | | |
| HER605 | R-6 | 250 Units/Box | | | |
| 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.

Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

Phone: 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com



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