



# HER601G THRU HER608G

6.0 AMPS. GLASS PASSIVATED HIGH EFFICIENCY RECTIFIERS

## FEATURES

- \* Low forward voltage drop
- \* High current capability
- \* High reliability
- \* High surge current capability

## MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting Position: Any
- \* Weight: 2.0 grams

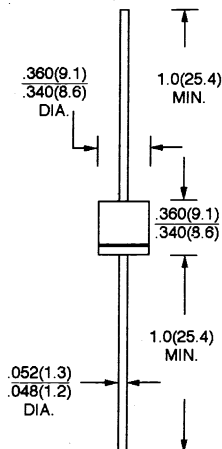
## VOLTAGE RANGE

50 to 1000 Volts

CURRENT

6.0 Amperes

**P600**



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

| TYPE NUMBER                                                                                                      | SYMBOLS                           | HER 601G      | HER 602G | HER 603G | HER 604G | HER 605G | HER 606G | HER 607G | HER 608G | UNITS    |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum Recurrent Peak Reverse Voltage                                                                           | V <sub>RRM</sub>                  | 50            | 100      | 200      | 300      | 400      | 600      | 800      | 1000     | V        |
| Maximum RMS Voltage                                                                                              | V <sub>RMS</sub>                  | 35            | 70       | 140      | 210      | 280      | 420      | 560      | 700      | V        |
| Maximum D. C Blocking Voltage                                                                                    | V <sub>DC</sub>                   | 50            | 100      | 200      | 300      | 400      | 600      | 800      | 1000     | V        |
| Maximum Average Forward Rectified Current<br>.375" (9.5mm) lead length @ T <sub>A</sub> = 55°C (Note 1)          | I <sub>F(AV)</sub>                | 6.0           |          |          |          |          |          |          |          | A        |
| Peak Forward Surge Current, 8.3 ms single half sine-wave<br>superimposed on rated load(JEDEC method)             | I <sub>FSM</sub>                  | 150           |          |          |          |          |          |          |          | A        |
| Maximum Instantaneous Forward Voltage at 6.0A<br>(Note 1)                                                        | V <sub>F</sub>                    | 1.0           |          |          |          | 1.3      | 1.7      |          |          | V        |
| Maximum D. C Reverse Current @ T <sub>A</sub> = 25°C<br>at Rated D. C. Blocking Voltage @ T <sub>A</sub> = 125°C | I <sub>R</sub>                    | 10.0<br>200   |          |          |          |          |          |          |          | μA<br>μA |
| Maximum Reverse Recovery Time(Note 2)                                                                            | T <sub>RR</sub>                   | 60            |          |          |          |          | 75       |          |          | nS       |
| Typical Junction Capacitance (Note 3)                                                                            | C <sub>J</sub>                    | 100           |          |          |          |          | 70       |          |          | pF       |
| Operating and Storage Temperature Range                                                                          | T <sub>J</sub> , T <sub>STG</sub> | - 65 to + 150 |          |          |          |          |          |          |          | °C       |

- NOTES: 1. Mounted on P. C. B with 1.1 x 1.1" (30 x 30mm) copper pads.  
2. Reverse Recovery Test Conditions:  $I_F = 0.5\text{A}$ ,  $I_R = 1.0\text{A}$ ,  $I_{RR} = 0.25\text{A}$ .  
3. Measured at 1 MHz and applied reverse voltage of 4.0V D. C.

