



查询HER301G供应商

HER301G THRU HER308G 捷多邦, 专业PCB打样工厂, 24小时加急出货

**3.0 AMPS. GLASS PASSIVATED HIGH EFFICIENCY RECTIFIERS**



**FEATURES**

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

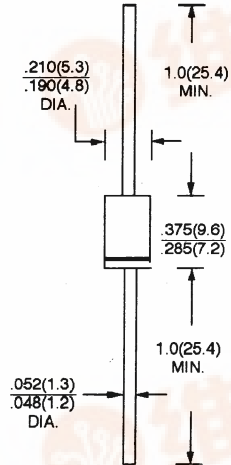
**MECHANICAL DATA**

- \* 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: 1.18 grams

**VOLTAGE RANGE**

50 to 1000 Volts  
CURRENT  
3.0 Amperes

**DO-201AD**



**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 301G      | HER 302G | HER 303G | HER 304G | HER 305G | HER 306G | HER 307G | HER 308G | UNITS                          |    |
|--|----------------|---------------|----------|----------|----------|----------|----------|----------|----------|--------------------------------|----|
| Maximum Recurrent Peak Reverse Voltage   | $V_{RRM}$      | 50            | 100      | 200      | 300      | 400      | 600      | 800      | 1000     | V                              |    |
| Maximum RMS Voltage  | $V_{RMS}$      | 35            | 70       | 140      | 210      | 280      | 420      | 560      | 700      | V                              |    |
| Maximum D. C Blocking Voltage  | $V_{DC}$       | 50            | 100      | 200      | 300      | 400      | 600      | 800      | 1000     | V                              |    |
| Maximum Average Forward Rectified Current<br>.375" (9.5mm) lead length @ $T_A = 55^\circ\text{C}$ (Note 1)             | $I_{F(AV)}$    | 3.0           |          |          |          |          |          |          |          | A                              |    |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)                     | $I_{FSM}$      | 100           |          |          |          |          |          |          |          | A                              |    |
| Maximum Instantaneous Forward Voltage at 3.0A (Note 1)   | $V_F$          | 1.0           |          |          | 1.3      |          | 1.7      |          |          | V                              |    |
| Maximum D. C Reverse Current @ $T_A = 25^\circ\text{C}$<br>at Rated D. C. Blocking Voltage @ $T_A = 125^\circ\text{C}$ | $I_R$          | 10.0          |          |          |          | 200      |          |          |          | $\mu\text{A}$<br>$\mu\text{A}$ |    |
| Maximum Reverse Recovery Time (Note 2)   | $T_{RR}$       | 50            |          |          |          |          | 75       |          |          |                                | nS |
| Typical Junction Capacitance (Note 3)  | $C_J$          | 80            |          |          |          |          | 50       |          |          |                                | pF |
| Operating and Storage Temperature Range  | $T_J, T_{STG}$ | - 65 to + 150 |          |          |          |          |          |          |          | $^\circ\text{C}$               |    |

NOTES: 1. Each lead mounted on a 0.8 x 0.8 x 0.04" (20 x 20 x 1mm) copper heat - sink.

2. Reverse Recovery Test Conditions:  $I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A$ .

3. Measured at 1 MHz and applied reverse voltage = 6.0 V D.C.



## RATINGS AND CHARACTERISTIC CURVES (HER301G THRU HER308G)

FIG. 1 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS

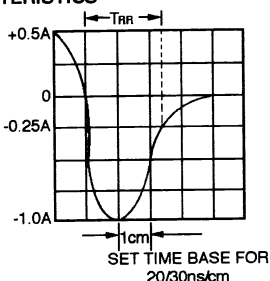
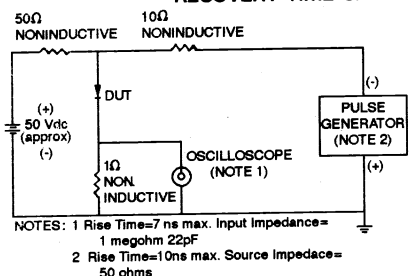


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

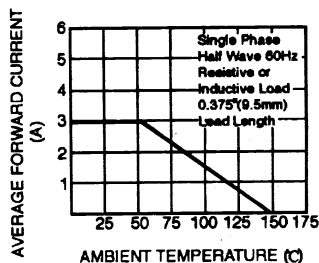


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

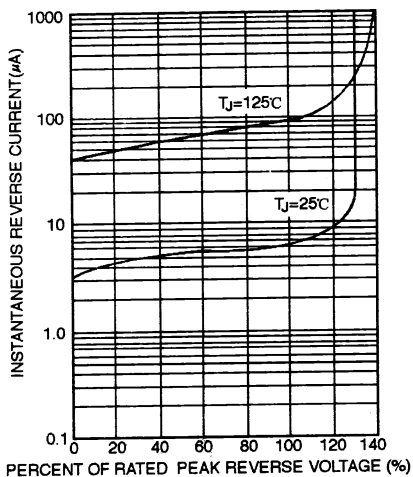


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

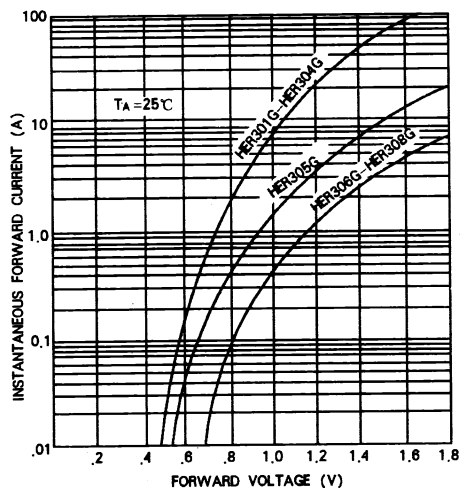


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

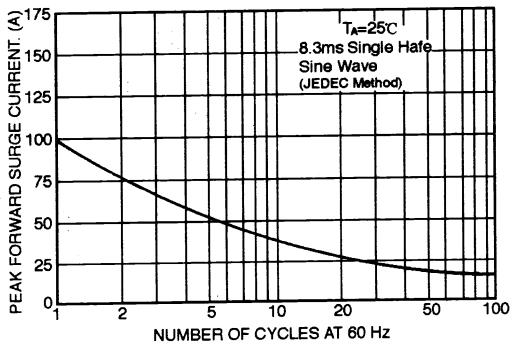


FIG. 6 - TYPICAL JUNCTION CAPACITANCE

