# HER201G thru HER208G

**GLASS HIGH EFFICIENCY RECTIFIERS**

REVERSE VOLTAGE **- 50** to **1000** Volts
FORWARD CURRENT **- 2.0** Amperes

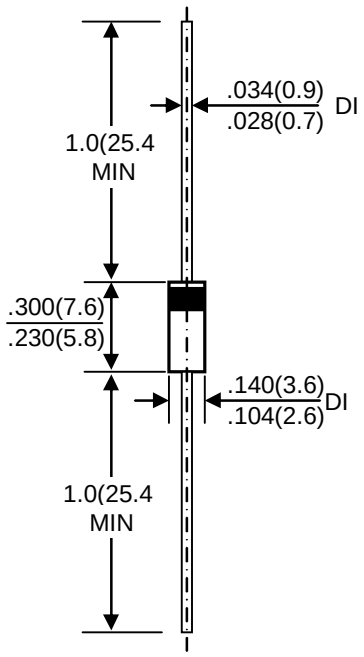
## FEATURES

- Low cost
- Diffused junction
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

## MECHANICAL DATA

- Case: JEDEC DO-15 molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.015 ounces , 0.4 grams
- Mounting position: Any

**DO-15**




Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

| CHARACTERISTICS | SYMBOL | HER 201G | HER 202G | HER 203G | HER 204G | HER 205G | HER 206G | HER 207G | HER 208G | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 DC Blocking Voltage | $V_{DC}$ | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current @$T_A$ =50 ℃ | $I_{(AV)}$ | 2.0 | | | | | | | | A |
| Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method) | $I_{FSM}$ | 60 | | | | | | | | A |
| Peak Forward Voltage at 2.0A DC(Note1) | $V_F$ | 1.0 | | | | 1.3 | 1.7 | | | V |
| Maximum DC Reverse Current @TJ=25℃ at Rated DC Blocking Voltage @$T_J$=100℃ | $I_R$ | 5.0 100 | | | | | | | | uA |
| Maximum Reverse Recovery Time(Note 1) | $T_{RR}$ | 50 | | | | | 75 | | | nS |
| Typical Junction Capacitance (Note1) | $C_J$ | 50 | | | | | 30 | | | pF |
| Typical Thermal Resistance (Note2) | $R_{\theta JA}$ | 25 | | | | | | | | ℃/W |
| Operating Temperature Range | $T_J$ | -50 to +150 | | | | | | | | ℃ |
| Storage Temperature Range | $T_{STG}$ | -50 to +150 | | | | | | | | ℃ |

NOTES: 1.Measured with $I_F$=0.5A，$I_R$=1A ，$I_{RR}$=0.25A

2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC

3.Thermal resistance junction to ambient

FIG. 1 – FORWARD CURRENT DERATING CURVE

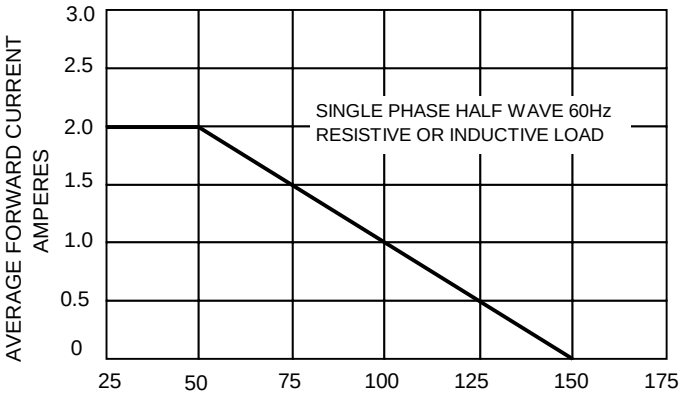



FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

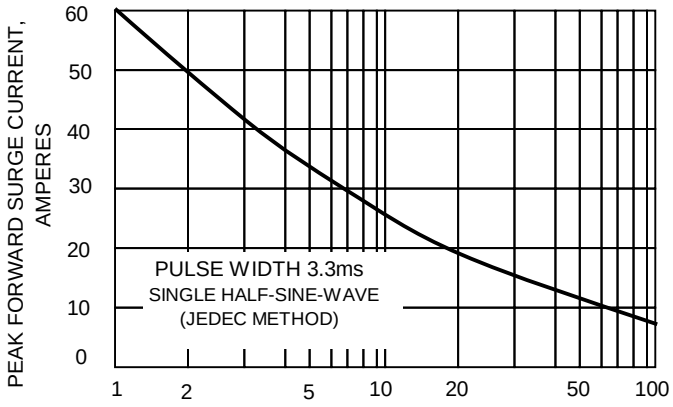



FIG.3 – TYPICAL JUNCTION CAPACITANCE

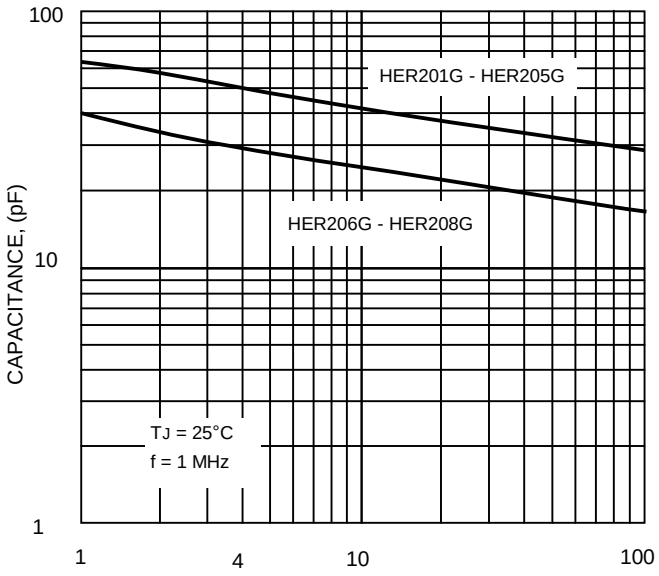



FIG.4-TYPICAL FORWARD CHARACTERISTICS