

HER301G thru HER308G

HIGH EFFICIENCY GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 3.0 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

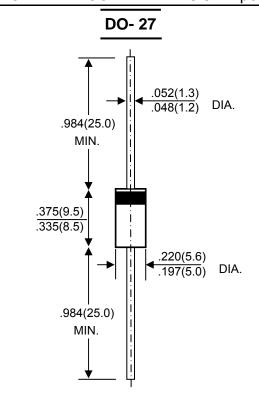
MECHANICAL DATA

● Case: JEDEC DO-27 molded plastic

Polarity: Color band denotes cathode

●Weight: 0.04ounces , 1.1grams

• Mounting position: Any



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%

| SYMBOL | HER 301G | HER 302G | HER 303G | HER 304G | HER 305G | HER 306G | HER 307G | HER 308G | UNIT |
|--------|---|--|--|---|---|---|---|---|--|
| VRRM | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | V |
| VRMS | 35 | 70 | 140 | 210 | 280 | 420 | 560 | 700 | V |
| VDC | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | V |
| I(AV) | 3.0 | | | | | | | | Α |
| lғsм | 125 | | | | | | | | А |
| VF | 1.0 1.3 1.7 | | | | | V | | | |
| lR | 5.0 100 | | | | | | | μΑ | |
| Trr | 50 75 | | | | | | nS | | |
| CJ | 50 | | | | | | 30 | | pF |
| Reja | 20 | | | | | | | °C/W | |
| TJ | -55 to +150 | | | | | | | $^{\circ}$ | |
| Tstg | -55 to +150 | | | | | | | $^{\circ}$ | |
| | VRRM VRMS VDC I(AV) IFSM VF IR CJ R0JA TJ | VRRM 50 VRMS 35 VDC 50 I(AV) IFSM VF IR TRR CJ Reja TJ | SYMBOL 301G 302G VRRM 50 100 VRMS 35 70 VDC 50 100 I(AV) IFSM VF 1.0 IR TRR CJ R0JA TJ | SYMBOL 301G 302G 303G VRRM 50 100 200 VRMS 35 70 140 VDC 50 100 200 I(AV) VF 1.0 IR | SYMBOL 301G 302G 303G 304G VRRM 50 100 200 300 VRMS 35 70 140 210 VDC 50 100 200 300 I(AV) 3 3 IFSM 1: 1: VF 1.0 1 IR 50 1: TRR 50 50 Reja 2 -55 to | SYMBOL 301G 302G 303G 304G 305G VRRM 50 100 200 300 400 VRMS 35 70 140 210 280 VDC 50 100 200 300 400 I(AV) 3.0 IFSM 125 VF 1.0 1.3 IR 50 TRR 50 CJ 50 Reja 20 TJ -55 to +150 | SYMBOL 301G 302G 303G 304G 305G 306G VRRM 50 100 200 300 400 600 VRMS 35 70 140 210 280 420 VDC 50 100 200 300 400 600 I(AV) 3.0 3.0 400 600 VF 1.0 1.3 5.0 100 TRR 50 100 100 5.0 100 TRR 50 50 20 7.0 | SYMBOL 301G 302G 303G 304G 305G 306G 307G VRRM 50 100 200 300 400 600 800 VRMS 35 70 140 210 280 420 560 VDC 50 100 200 300 400 600 800 I(AV) 3.0 3.0 400 600 800 VF 1.0 1.3 1.7 IR 50 100 75 CJ 50 30 30 Reja 20 30 30 | SYMBOL 301G 302G 303G 304G 305G 306G 307G 308G VRRM 50 100 200 300 400 600 800 1000 VRMS 35 70 140 210 280 420 560 700 VDC 50 100 200 300 400 600 800 1000 I(AV) 3.0 125 VF 1.0 1.3 1.7 IR 50 75 CJ 50 50 30 30 400 600 800 TRR 50 75 30 Reja 75 75 75 TJ -55 to +150 75 |

NOTES: 1.Measured with IF=0.5A, IR=1A, IRR=0.25A

- 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC
- 3. Thermal resistance junction to ambient

REV. 2,02-Dec-2013



