

Glass Passivated High Efficient Rectifier
DO-15(DO-204AC)

Features

- ROHS compliant
- Glass passivated chip
- High forward surge capability
- Meet MSL level 1, per J-STD-020
LF maximum peak of 250 °C
- Solder dip 260 °C / 40S
- Component in accordance to ROHS 2002/95/EC and WEEE 2002/96/WC
- UL recognition, file number E342874


Primary characteristics

| | |
|----------------------|--------------|
| $I_{F(AV)}$ | 2A |
| V_{RRM} | 50V to 1000V |
| I_{FSM} | 60A |
| I_{RM} | 5 μ A |
| V_{FM} at $I_F=2A$ | 1.0/1.3/1.7V |
| T_J max. | 150 °C |

Applications

Ideal for ac-to-dc bridge full wave rectification such as SMPS, home appliances, office equipment, industrial automation applications

Mechanical data

- DO-15(DO-204AC)
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.
- Mounting Torque:10cm·kg(8.8 inches·lbs)max.
- Recommended Torque:5.7 cm·kg(5 inches·lbs)

Maximum rating (Ta=25°C unless otherwise noted)

| Parameter | Sym | DO-15(DO-204AC) | | | | | | | | Unit |
|--|-------------|-----------------|----------|----------|----------|----------|----------|----------|----------|---------|
| | | HER 201G | HER 202G | HER 203G | HER 204G | HER 205G | HER 206G | HER 207G | HER 208G | |
| Max. repetitive peak reverse voltage | V_{RRM} | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | V |
| Max. RMS reverse voltage | V_{RMS} | 35 | 70 | 140 | 210 | 280 | 420 | 560 | 700 | V |
| Max. DC blocking voltage | V_{DC} | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | V |
| Max. average forward current | $I_{F(AV)}$ | 2 | | | | | | | | A |
| Non-repetitive peak forward surge current 8.3ms single half-sine-wave | I_{FSM} | 60 | | | | | | | | A |
| Max. instantaneous forward voltage drop per diode | V_{FM} | 1.0 | | | 1.3 | | 1.7 | | | V |
| Max. instantaneous reverse current at rated DC blocking voltage | I_{RM} | 5 | | | | | | | | μ A |
| | | 150 | | | | | | | | |
| Operating junction temperature | T_J | -55 ~ +150 | | | | | | | | °C |
| Storage temperature | T_{STG} | -55 ~ +150 | | | | | | | | °C |
| Maximum reverse recovery time (Note1) | trr | 50 | | | | | 75 | | | nS |

Notes:

1 Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $IRR=0.25A$

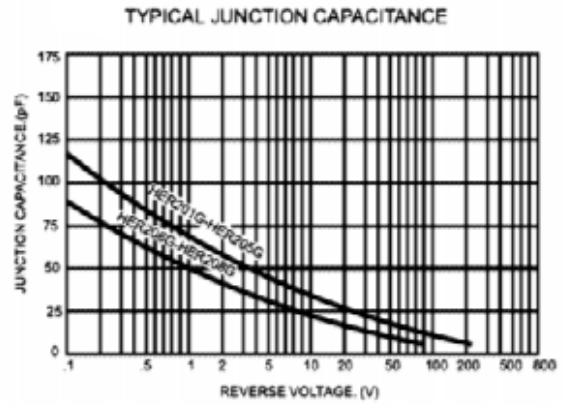
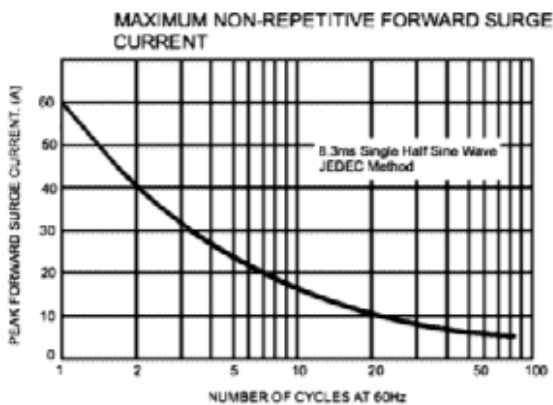
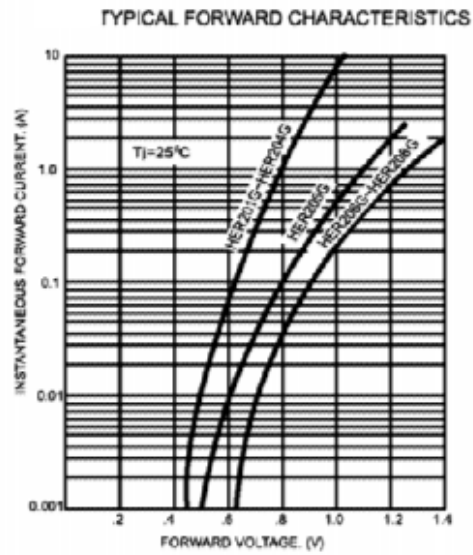
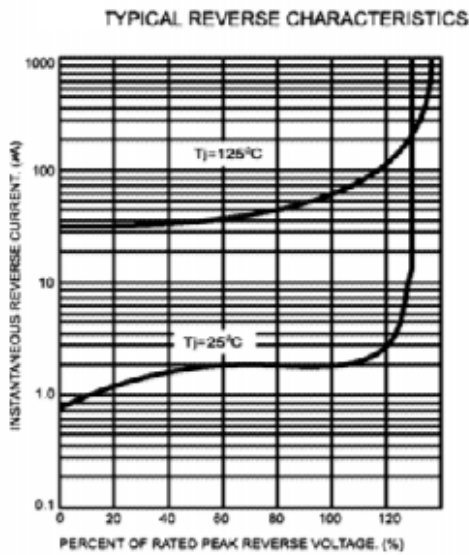


HER201G thru HER208G. Glass Passivated High Efficient Rectifier

Ordering information (Example)

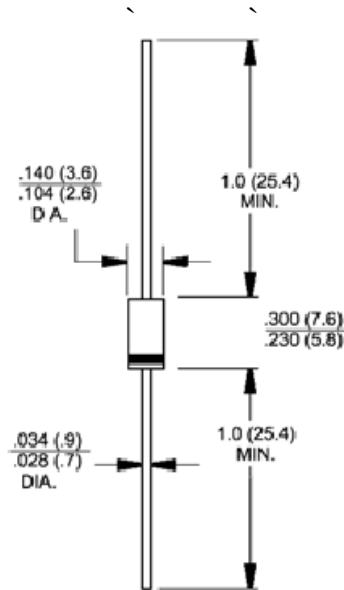
| PREFERRED | UNIT WEIGHT (g) | PREFERRED PACKAGE CODE | BASE QUANTITY | DELIVERY MODE |
|-----------|-----------------|------------------------|---------------|---------------|
| HER208G | | | | |

Typical characteristics





Package outline dimensions



Dimensions in inches and (millimeters)

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