



HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER HER801G ~ HER808G

High Efficiency Glass Passivated Rectifier

Features

- Glass passivated chip junction
- Low power loss, high efficiency
- Low leakage
- High Surge Capacity
- High switching speed
- High temperature soldering guaranteed:
260°C/10 seconds, 0.375" (9.5mm) lead length from case
- Also available in reverse polarity, add the "R" Suffix, i.e. HER801GR
- Also available in isolated package under part number HERF801G
- RoHS and REACH Compliance



Mechanical Data

| | |
|---------------------------|--|
| Case: | Transfer molded plastic |
| Polarity: | Color band denotes cathode end |
| Epoxy: | UL94V-0 rate flame retardant |
| Lead: | Plated axial lead, solderable per MIL-STD-202E Method 208C |
| Mounting Position: | Any |
| Weight: | 0.064 ounce, 1.81 gram |

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

| Symbol | Description | HER 801G | HER 802G | HER 803G | HER 804G | HER 805G | HER 806G | HER 807G | HER 808G | Unit | Conditions |
|----------------|---|--------------------------|----------|----------|----------|----------|----------|----------|----------|------|-------------------|
| VRRM | Max Recurrent Peak Reverse Voltage | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | V | |
| VRMS | Max RMS Voltage | 35 | 70 | 140 | 210 | 280 | 420 | 560 | 700 | V | |
| VDC | Max DC Blocking Voltage | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | V | |
| I(AV) | Max Average Forward Rectified Current 0.375" (9mm) lead length | 8.0 | | | | | | | | A | $T_c=75^{\circ}C$ |
| IFSM | Peak Forward Surge Current | 200 | | | | | | | | A | JEDEC method |
| TJ,TSTG | Operating and Storage Temperature Range | -55 to +150, -55 to +150 | | | | | | | | °C | |

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

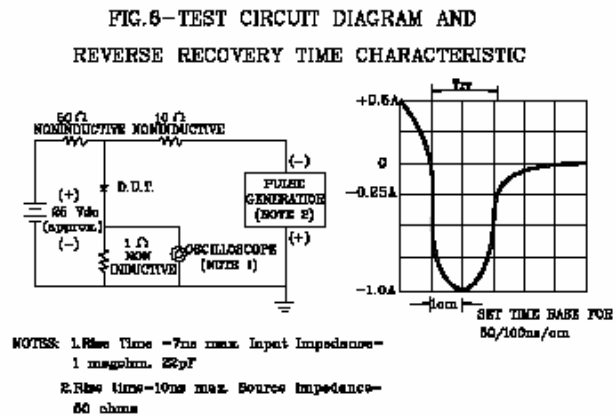
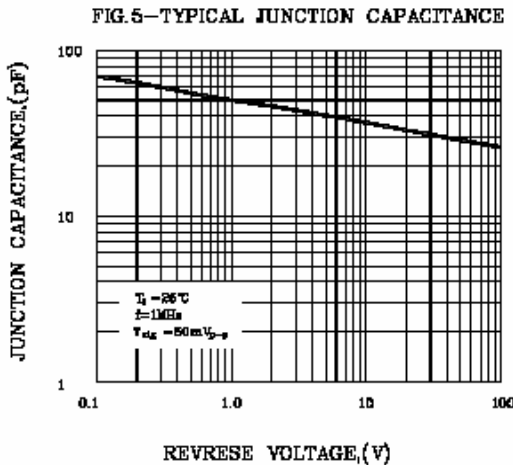
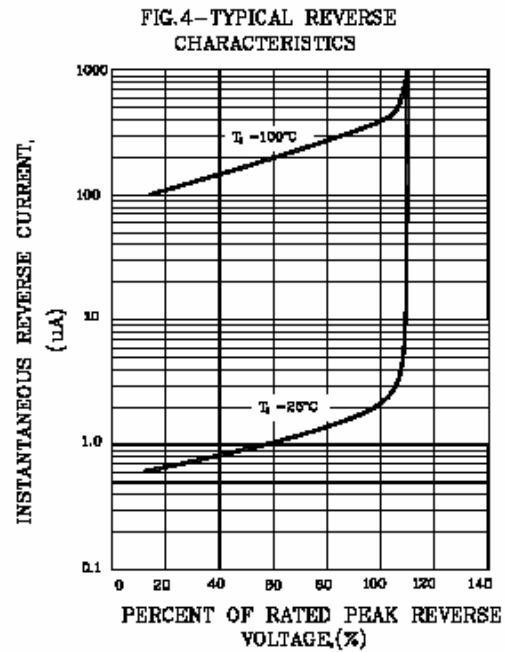
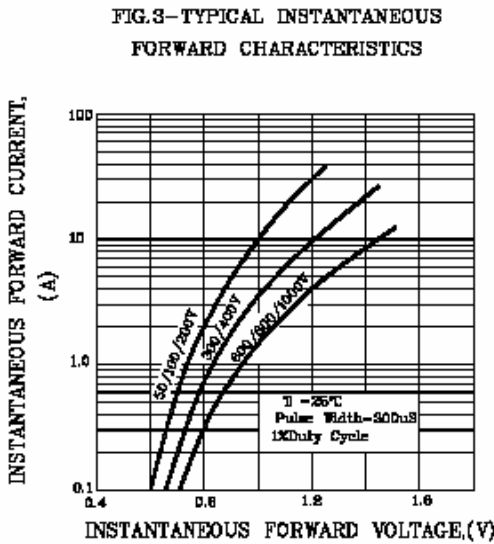
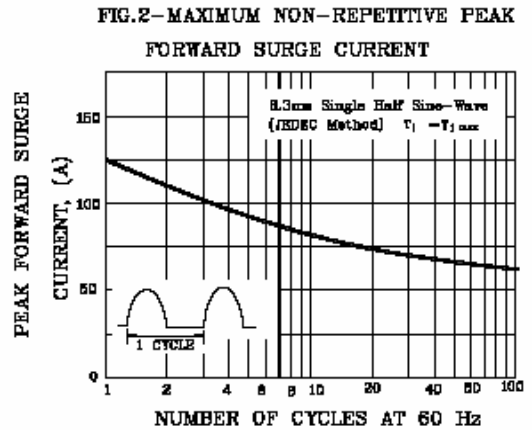
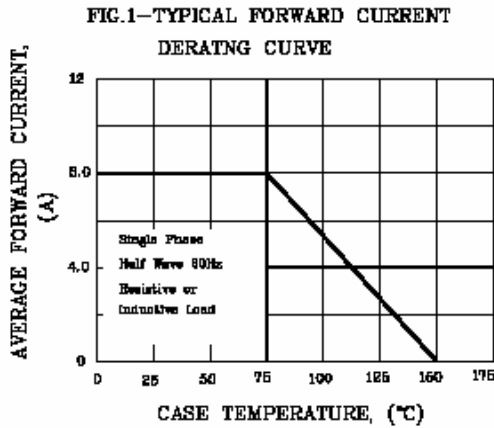
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|--------------|---|----------|----------|----------|----------|----------|----------|----------|----------|--------|---------------------------|
| VF | Max Instantaneous Forward Voltage | 1.0 | 1.3 | 1.5 | 1.7 | | | | | V | 8.0A |
| Rθ-JA | Typical Thermal Resistance | 10 | | | | | | | | °C/W | Note 2 |
| IR | Max DC Reverse Current at Rated DC Blocking Voltage | 10 | | | | | | | | µA | TA=25°C |
| | | 150 | | | | | | | | | TA=125°C |
| TRR | Maximum reverse recovery time | 50 | | | 70 | | | | nS | Note 1 | |
| CJ | Typical Junction capacitance | 110 | | | | | | | | pF | Measured at 1.0MHz / 4.0V |

Note:

1. Reverse recovery test conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$
2. Unit mounted on heatsink

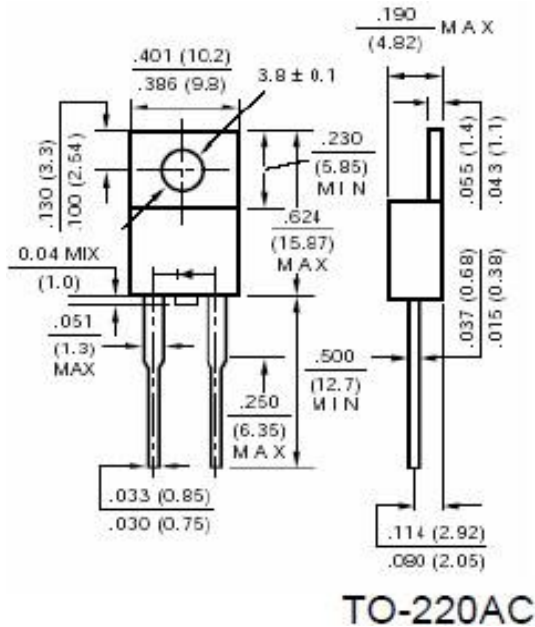
HER801G ~ HER808G

RATINGS AND CHARACTERISTIC CURVES HER801G THRU HER808G



HER801G ~ HER808G

Dimensions in inches (mm)



Contact us:

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