

## HER201-G Thru. HER208-G

Voltage: 50 to 1000 V

Current: 2.0 A

RoHS Device

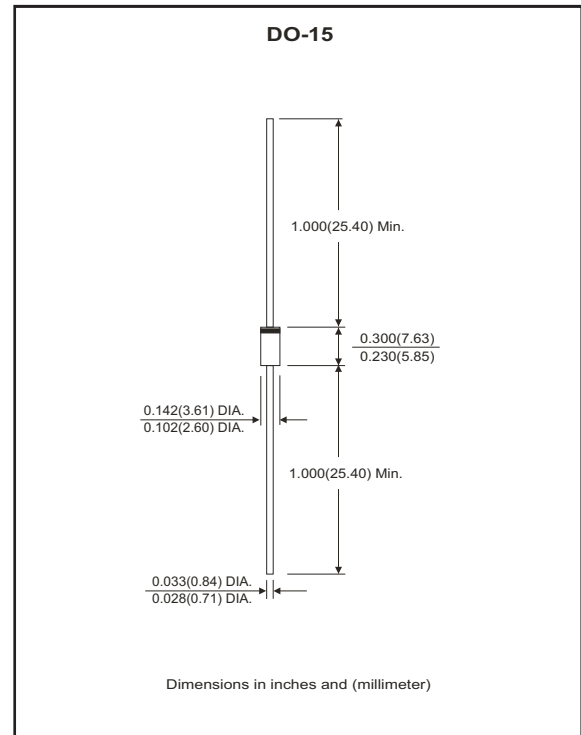


### Features

- Glass passivated chip.
- Low forward voltage.
- High reliability.
- High surge current capability.
- High speed switching.

### Mechanical data

- Case: JEDEC DO-15 molded plastic.
- Epoxy: UL 94V-0 rate flame retardant.
- Polarity: Color band denotes cathode end.
- Lead: Solderable per MIL-STD-202, method 208 guaranteed.
- Mounting position: Any
- Weight: 0.402 grams



### Electrical Characteristics (at T<sub>A</sub>=25°C unless otherwise noted)

Ratings at 25°C ambient temperature unless otherwise specified.

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

For capacitive load derate current by 20%.

| Parameter                                                          | Symbol            | HER201<br>-G | HER202<br>-G | HER203<br>-G | HER204<br>-G | HER205<br>-G | HER206<br>-G | HER207<br>-G | HER208<br>-G | Unit |
|--------------------------------------------------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------|
| Maximum repetitive peak reverse voltage<br>@I <sub>T</sub> = 5μA   | V <sub>RRM</sub>  | 50           | 100          | 200          | 300          | 400          | 600          | 800          | 1000         | V    |
| Maximum RMS voltage                                                | V <sub>RMS</sub>  | 35           | 70           | 140          | 210          | 280          | 420          | 560          | 700          | V    |
| Maximum DC blocking voltage                                        | V <sub>DC</sub>   | 50           | 100          | 200          | 300          | 400          | 600          | 800          | 1000         | V    |
| Maximum average forward rectified current<br>@T <sub>A</sub> =25°C | I <sub>(AV)</sub> | 2.0          |              |              |              |              |              |              |              | A    |
| Maximum instantaneous forward<br>voltage at specified current      | V <sub>F</sub>    | 1.0          |              |              |              | 1.3          |              | 1.7          |              | V    |
| Maximum DC reverse current                                         | I <sub>R</sub>    | 5.0          |              |              |              |              |              |              |              | μA   |
| Maximum reverse recovery time (Note 1)                             | t <sub>rr</sub>   | 50           |              |              |              |              | 75           |              |              | ns   |
| Operating temperature range                                        | T <sub>J</sub>    | -55 ~ +150   |              |              |              |              |              |              |              | °C   |
| Storage temperature range                                          | T <sub>STG</sub>  | -55 ~ +150   |              |              |              |              |              |              |              | °C   |

NOTES:

1. Reverse recovery test conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>RR</sub>=0.25A(RGI circuit)

## Rating and Characteristic Curves (HER201-G Thru. HER208-G)

Fig.1- Forward Current Derating Curve

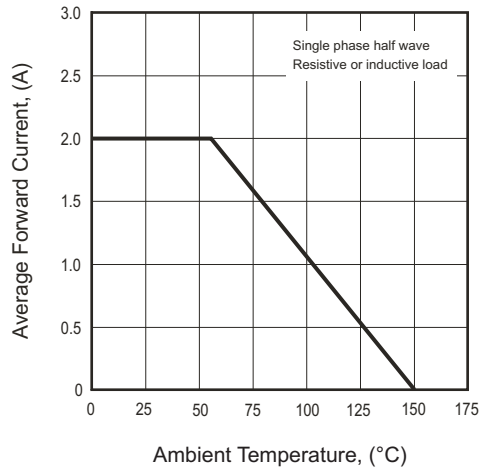


Fig.2- Typical Forward Characteristics

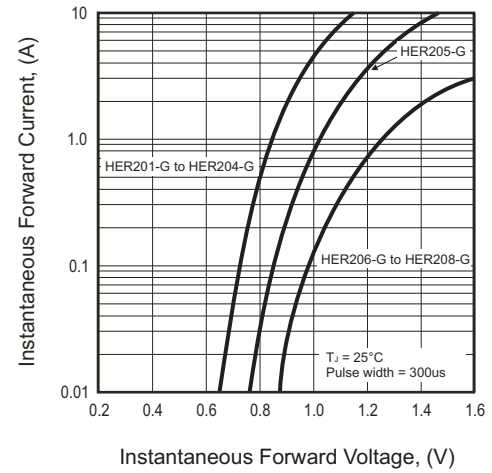


Fig.3- Peak Forward Surge Current

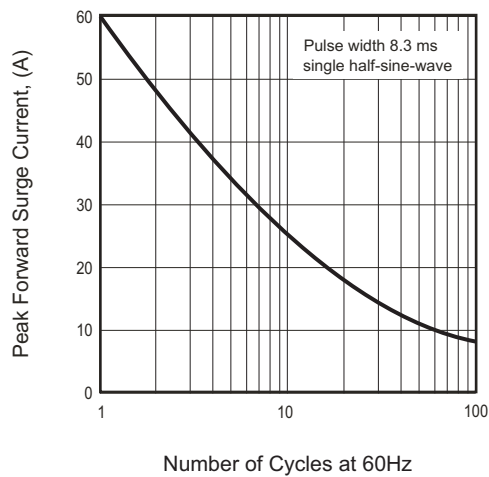
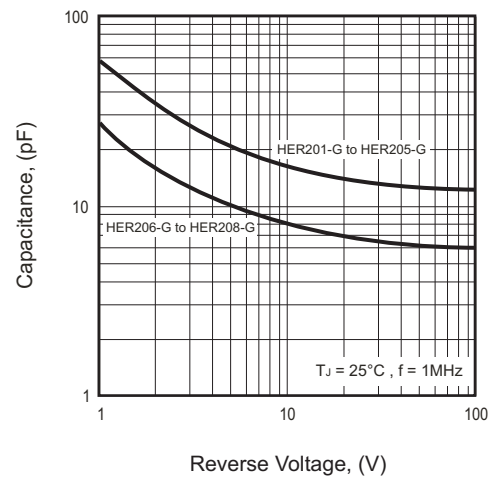
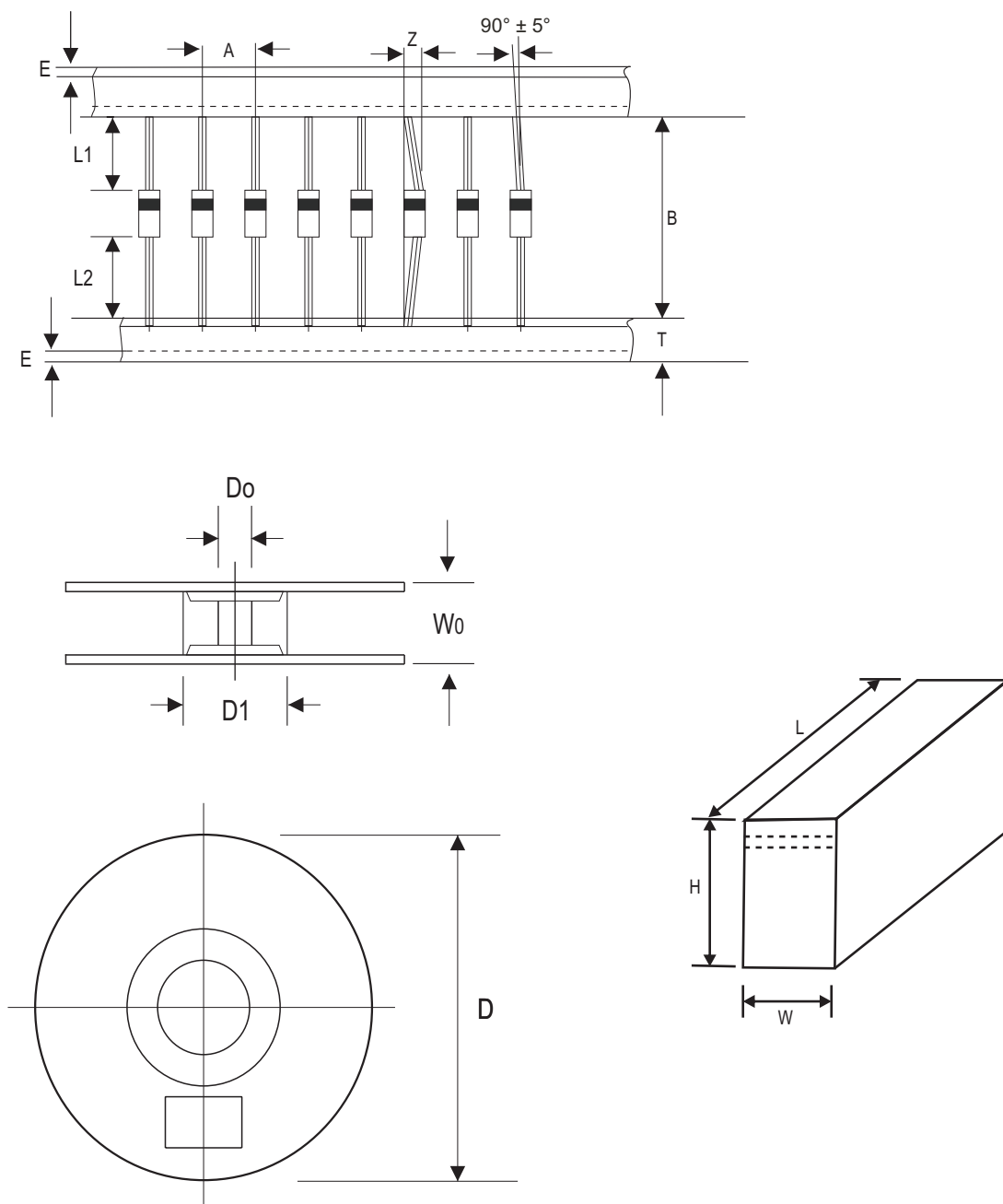


Fig.4- Typical Junction Capacitance



## Taping Specification For Axial Lead Diodes



| DO-15 | SYMBOL | A                 | B                 | Z           | T                 | E           | L1-L2       |  |
|-------|--------|-------------------|-------------------|-------------|-------------------|-------------|-------------|--|
|       | (mm)   | $5.0 \pm 0.50$    | $52.0 \pm 0.50$   | 1.2 (max)   | $6.0 \pm 0.40$    | 3.0 (max)   | 1.0 (max)   |  |
|       | (inch) | $0.197 \pm 0.020$ | $2.047 \pm 0.020$ | 0.047 (max) | $0.236 \pm 0.016$ | 0.118 (max) | 0.039 (max) |  |

| DO-15 | SYMBOL | D1                | D0                | D   | W0                | L                  | W                 | H                 |
|-------|--------|-------------------|-------------------|-----|-------------------|--------------------|-------------------|-------------------|
|       | (mm)   | $85.7 \pm 0.3$    | $16.6 \pm 0.4$    | 330 | $72.0 \pm 0.3$    | $260.0 \pm 5.0$    | $80.0 \pm 5.0$    | $145.0 \pm 5.0$   |
|       | (inch) | $3.374 \pm 0.012$ | $0.654 \pm 0.016$ | 13  | $2.835 \pm 0.012$ | $10.236 \pm 0.197$ | $3.150 \pm 0.197$ | $5.709 \pm 0.197$ |

## Marking Code

| Part Number | Marking code | Packaging |
|-------------|--------------|-----------|
| HER201-G    | HER201       | AMMO      |
| HER202-G    | HER202       | AMMO      |
| HER203-G    | HER203       | AMMO      |
| HER204-G    | HER204       | AMMO      |
| HER205-G    | HER205       | AMMO      |
| HER206-G    | HER206       | AMMO      |
| HER207-G    | HER207       | AMMO      |
| HER208-G    | HER208       | AMMO      |
| HER201T-G   | HER201       | REEL      |
| HER202T-G   | HER202       | REEL      |
| HER203T-G   | HER203       | REEL      |
| HER204T-G   | HER204       | REEL      |
| HER205T-G   | HER205       | REEL      |
| HER206T-G   | HER206       | REEL      |
| HER207T-G   | HER207       | REEL      |
| HER208T-G   | HER208       | REEL      |
| HER201B-G   | HER201       | BULK      |
| HER202B-G   | HER202       | BULK      |
| HER203B-G   | HER203       | BULK      |
| HER204B-G   | HER204       | BULK      |
| HER205B-G   | HER205       | BULK      |
| HER206B-G   | HER206       | BULK      |
| HER207B-G   | HER207       | BULK      |
| HER208B-G   | HER208       | BULK      |



**XXX = Product type marking code**

## Standard Package

| Case Type | AMMO PACK |              |             |
|-----------|-----------|--------------|-------------|
|           | BOX (EA)  | Box / Carton | CARTON (EA) |
| DO-15     | 2,000     | 10           | 20,000      |
|           | 3,000     | 10           | 30,000      |

| Case Type | AMMO REEL |               |             |                  |
|-----------|-----------|---------------|-------------|------------------|
|           | REEL (EA) | Reel / Carton | CARTON (EA) | Reel Size (inch) |
| DO-15     | 4,000     | 4             | 16,000      | 13               |

| Case Type | BULK PACK |              |             |
|-----------|-----------|--------------|-------------|
|           | BOX (EA)  | Box / Carton | CARTON (EA) |
| DO-15     | 500       | 24           | 12,000      |