

VOLTAGE RANGE: 50 - 1000V

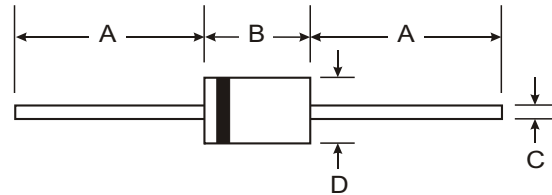
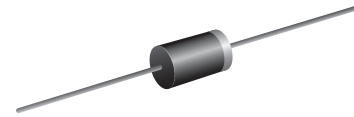
CURRENT: 3.0 A

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

- Case: DO-201AD, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.2 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



| DO-201AD | | |
|----------------------|-------|------|
| Dim | Min | Max |
| A | 25.40 | — |
| B | 8.50 | 9.53 |
| C | 0.96 | 1.06 |
| D | 4.80 | 5.21 |
| All Dimensions in mm | | |

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| RATING | SYMBOL | HER 301 | HER 302 | HER 303 | HER 304 | HER 305 | HER 306 | HER 307 | HER 308 | 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 Current 0.375"(9.5mm) Lead Length T _a = 55 °C | I _{F(AV)} | 3.0 | | | | | | | | A | |
| Maximum Peak Forward Surge Current, 8.3ms Single half sine wave superimposed on rated load (JEDEC Method) | I _{FSM} | 150 | | | | | | | | A | |
| Maximum Forward Voltage at I _F = 3.0 A | V _F | 1.1 | | | | | 1.7 | | | | V |
| Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a = 100 °C | I _R | 10 | | | | | | | | μA | |
| | I _{R(H)} | 50 | | | | | | | | μA | |
| Maximum Reverse Recovery Time (Note 1) | T _{rr} | 50 | | | | | 75 | | | | ns |
| Typical Junction Capacitance (Note 2) | C _J | 50 | | | | | | | | pf | |
| Junction Temperature Range | T _J | - 65 to + 150 | | | | | | | | °C | |
| Storage Temperature Range | T _{STG} | - 65 to + 150 | | | | | | | | °C | |

Notes :

- (1) Reverse Recovery Test Conditions : I_F = 0.5 A, I_R = 1.0 A, I_{rr} = 0.25 A.
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 V_{dc}

RATING AND CHARACTERISTIC CURVES (HER301 - HER308)

FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

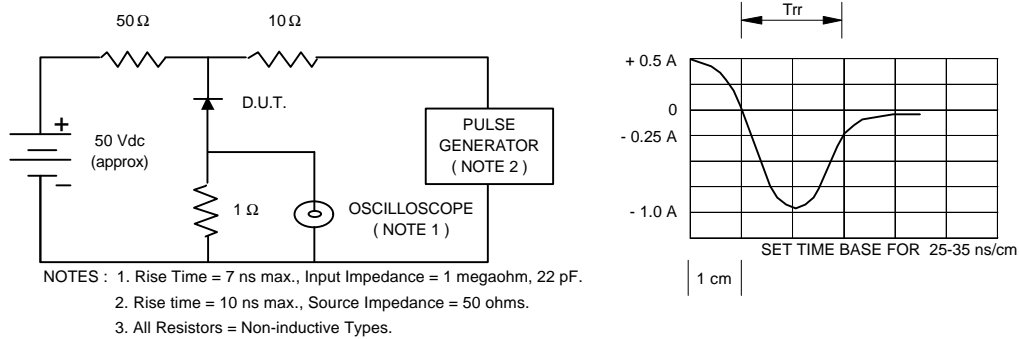


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

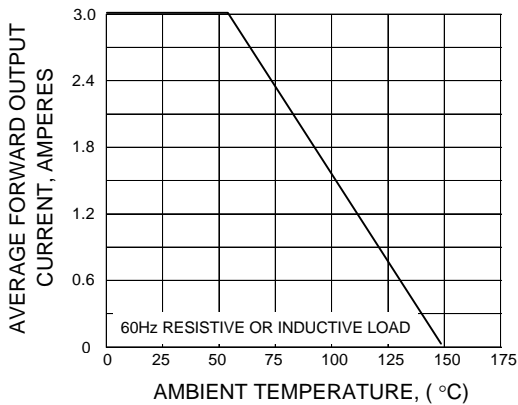


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

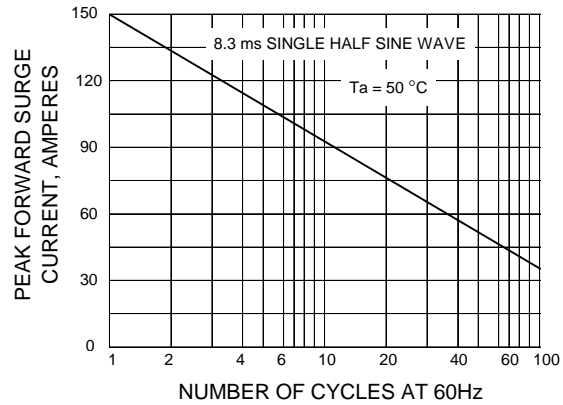


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

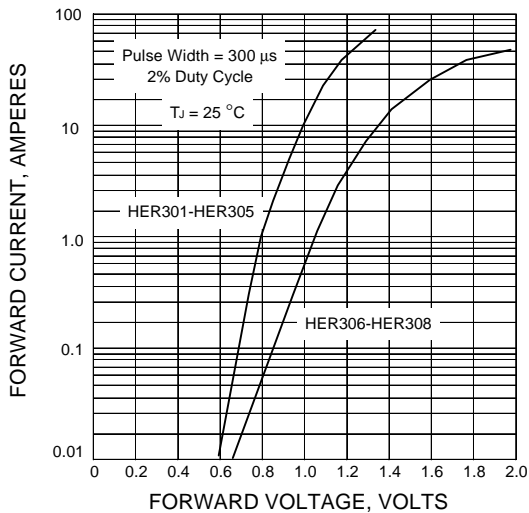
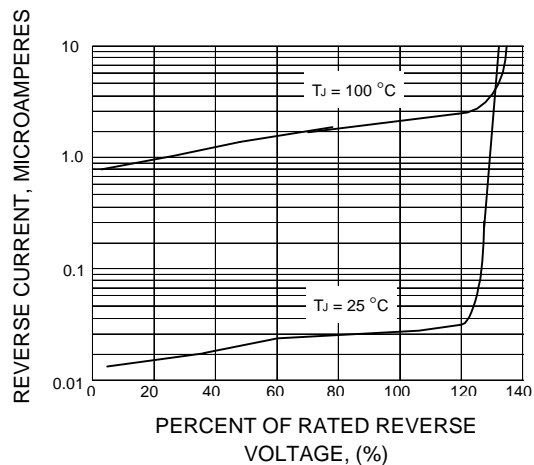


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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