

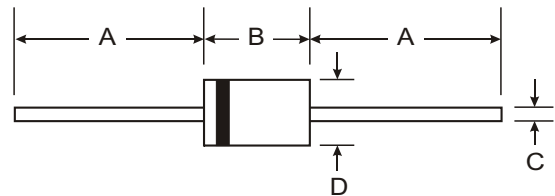
VOLTAGE RANGE: 50 - 1000V
CURRENT: 5.0 A

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 @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

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

| Characteristic | Symbol | HER 501 | HER 502 | HER 503 | HER 504 | HER 505 | HER 506 | HER 507 | HER 508 | 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 $T_a = 55^{\circ}\text{C}$ | $I_{F(AV)}$ | 5.0 | | | | | | | | A |
| Maximum Peak Forward Surge Current, 8.3ms Single half sine wave superimposed on rated load (JEDEC Method) | I_{FSM} | 200 | | | | | | | | A |
| Maximum Forward Voltage at $I_F = 5.0\text{ A}$ | V_F | 1.1 | | | | 1.7 | | | | V |
| Maximum DC Reverse Current $T_a = 25^{\circ}\text{C}$ | I_R | 10 | | | | | | | | μA |
| at Rated DC Blocking Voltage $T_a = 100^{\circ}\text{C}$ | $I_{R(H)}$ | 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 | | | | | | | | $^{\circ}\text{C}$ |
| Storage Temperature Range | T_{STG} | - 65 to + 150 | | | | | | | | $^{\circ}\text{C}$ |

Notes :

(1) Reverse Recovery Test Conditions : $I_F = 0.5\text{ A}$, $I_R = 1.0\text{ A}$, $I_{rr} = 0.25\text{ A}$.

(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Vdc

RATING AND CHARACTERISTIC CURVES (HER501 - HER508)

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

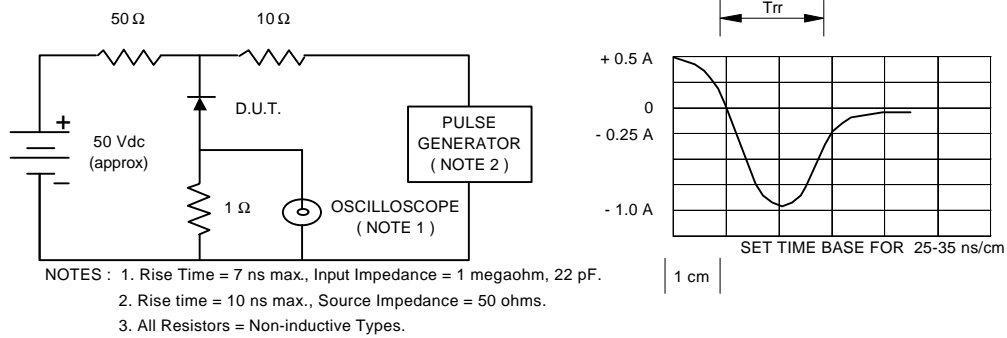


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

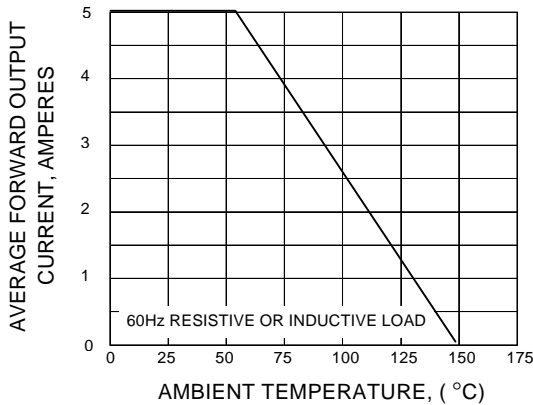


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

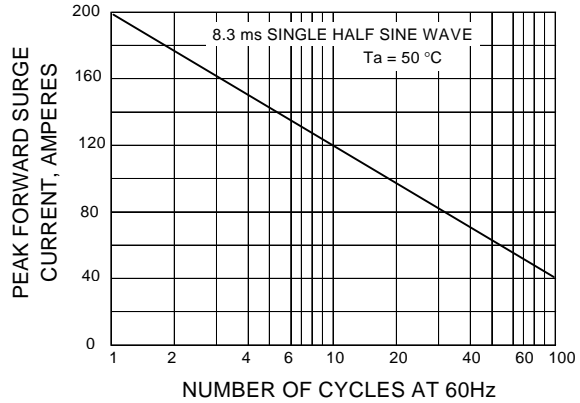


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

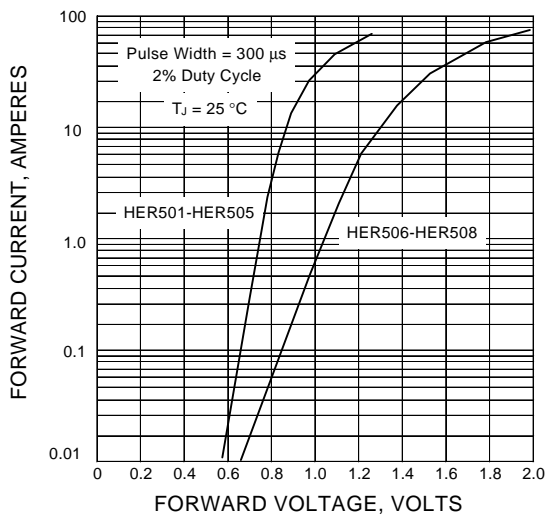
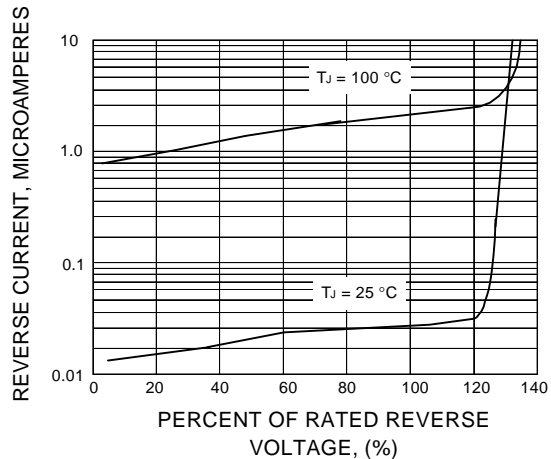


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



单击下面可查看定价，库存，交付和生命周期等信息

[>>SUNMATE\(森美特\)](#)