



Micro Commercial Components
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HER201 THRU HER208

Features

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

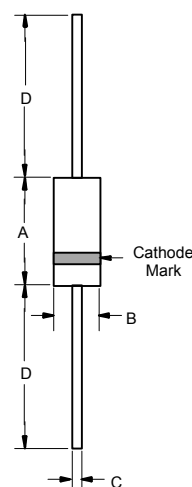
Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- For capacitive load, derate current by 20%

| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|--|---------------------|-----------------------------|
| HER201 | --- | 50V | 35V | 50V |
| HER202 | --- | 100V | 70V | 100V |
| HER203 | --- | 200V | 140V | 200V |
| HER204 | --- | 300V | 210V | 300V |
| HER205 | --- | 400V | 280V | 400V |
| HER206 | --- | 600V | 420V | 600V |
| HER207 | --- | 800V | 560V | 800V |
| HER208 | --- | 1000V | 700V | 1000V |

**2.0 Amp High
Efficient Rectifiers
50 to 1000 Volts**

DO-15



Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|--------------------------------------|---|
| Average Forward Current | $I_{F(AV)}$ | 2 A | $T_A = 55^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 60A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage HER201-204 HER205 HER206-208 | V_F | 1.0V 1.3V 1.7V | $I_{FM} = 2.0A$; $T_A = 25^\circ\text{C}$ |
| Reverse Current At Rated DC Blocking Voltage (Maximum DC) | I_R | 5 μA 100 μA | $T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$ |
| Maximum Reverse Recovery Time HER201-205 HER206-208 | T_{rr} | 50ns 75ns | $I_F=0.5A, I_R=1.0A,$ $I_{rr}=0.25A$ |
| Typical Junction Capacitance HER201-205 HER206-208 | C_J | 50pF 30pF | Measured at 1.0MHz, $V_R=4.0V$ |

| DIM | INCHES | | MM | | NOTE |
|-----|--------|------|-------|------|------|
| | MIN | MAX | MIN | MAX | |
| A | .230 | .300 | 5.8 | 7.6 | |
| B | .104 | .140 | 2.6 | 3.6 | |
| C | .028 | .034 | 0.71 | 0.86 | |
| D | 1.000 | --- | 25.40 | --- | |

*Pulse Test: Pulse Width 300 μsec , Duty Cycle 1%

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RATINGS AND CHARACTERISTIC CURVES

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

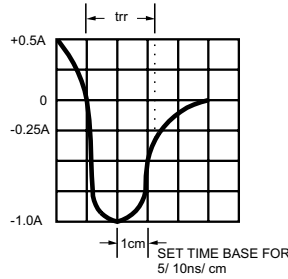
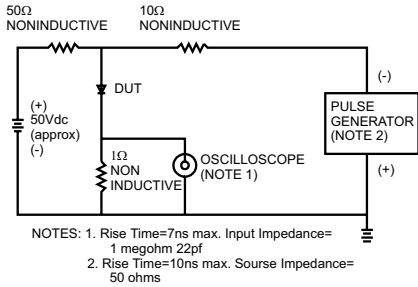


FIG.2- MAXIMUM AVERAGE FORWARD CURRENT DERATING

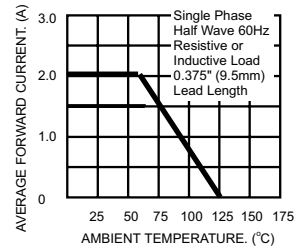


FIG.3- TYPICAL REVERSE CHARACTERISTICS

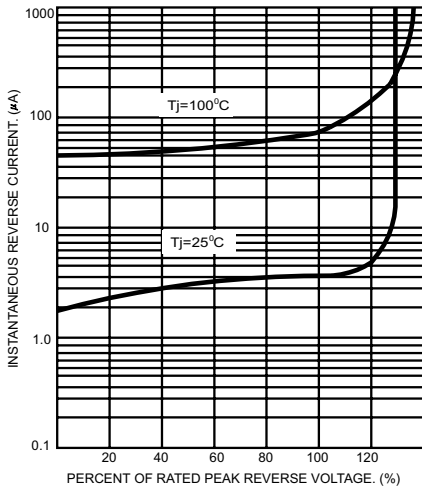


FIG.4- TYPICAL FORWARD CHARACTERISTICS

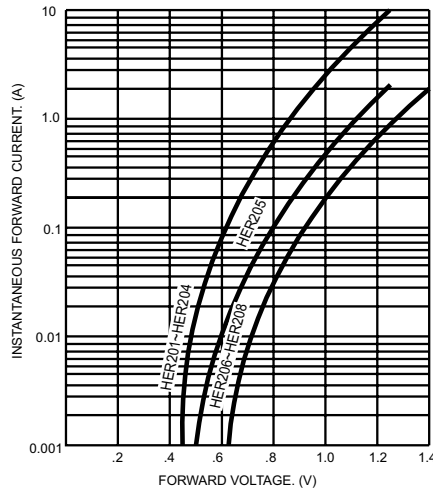


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

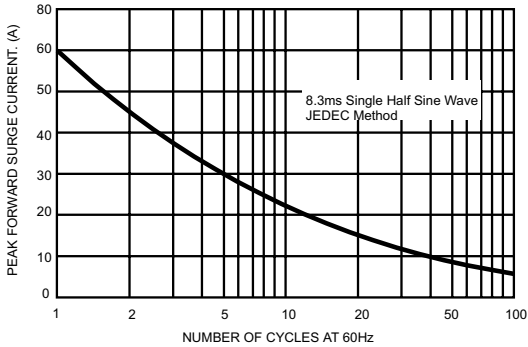


FIG.6- TYPICAL JUNCTION CAPACITANCE

