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Micro Commercial Components

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# HER201 THRU HER208

## 2.0 Amp High Efficient Rectifiers 50 to 1000 Volts

### Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- High Surge Current Capability
- Low Forward Voltage Drop
- High Reliability
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

### Maximum Ratings

- Operating Temperature: -55°C to +150°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             | HER201         | 50V                                    | 35V                 | 50V                         |
| HER202             | HER202         | 100V                                   | 70V                 | 100V                        |
| HER203             | HER203         | 200V                                   | 140V                | 200V                        |
| HER204             | HER204         | 300V                                   | 210V                | 300V                        |
| HER205             | HER205         | 400V                                   | 280V                | 400V                        |
| HER206             | HER206         | 600V                                   | 420V                | 600V                        |
| HER207             | HER207         | 800V                                   | 560V                | 800V                        |
| HER208             | HER208         | 1000V                                  | 700V                | 1000V                       |

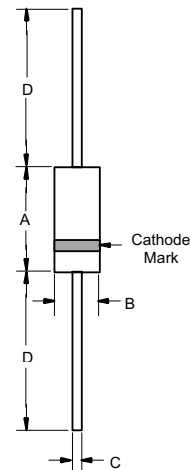
### Electrical Characteristics @ 25°C Unless Otherwise Specified

|                                                           |             |                                                      |                                                       |
|-----------------------------------------------------------|-------------|------------------------------------------------------|-------------------------------------------------------|
| 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                     | $V_F$       | HER201-204: 1.0V<br>HER205: 1.3V<br>HER206-208: 1.7V | $I_{FM} = 2.0A^*$ ;<br>$T_A = 25^\circ\text{C}$       |
| Reverse Current At Rated DC Blocking Voltage (Maximum DC) | $I_R$       | 5μA<br>100μA                                         | $T_A = 25^\circ\text{C}$<br>$T_A = 100^\circ\text{C}$ |
| Maximum Reverse Recovery Time                             | $T_{rr}$    | 50ns<br>75ns                                         | $I_F=0.5A, I_R=1.0A,$<br>$I_{rr}=0.25A$               |
| Typical Junction Capacitance                              | $C_J$       | 50pF<br>30pF                                         | Measured at<br>1.0MHz, $V_R=4.0V$                     |

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

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

### DO-15



| 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 | ---  |      |

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# HER201 THRU HER208

## RATINGS AND CHARACTERISTIC CURVES

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

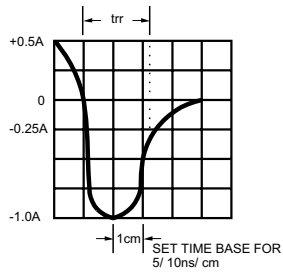
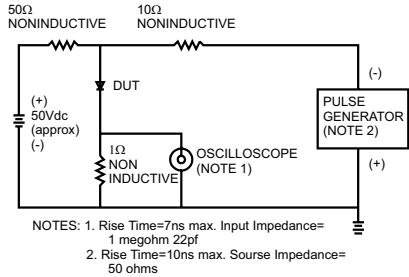


FIG.2- MAXIMUM AVERAGE FORWARD CURRENT DERATING

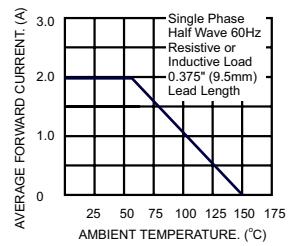


FIG.3- TYPICAL REVERSE CHARACTERISTICS

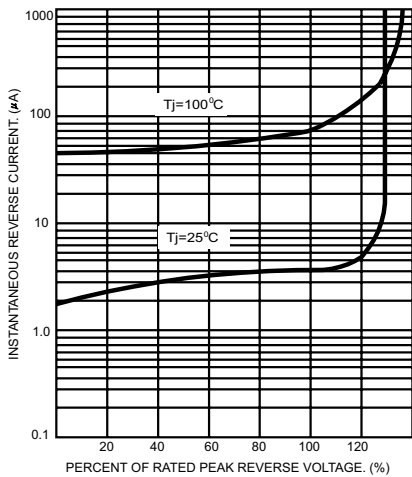


FIG.4- TYPICAL FORWARD CHARACTERISTICS

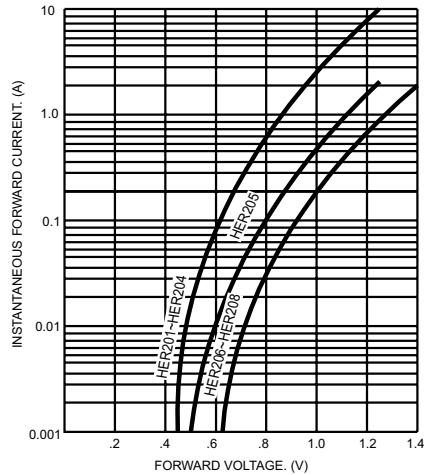


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

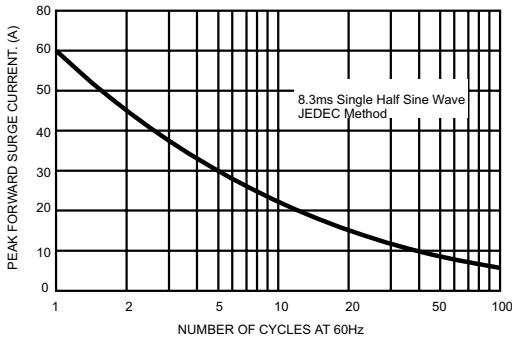
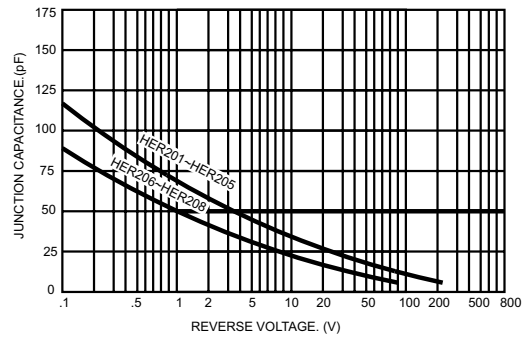


FIG.6- TYPICAL JUNCTION CAPACITANCE







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### Ordering Information :

| Device         | Packing                      |
|----------------|------------------------------|
| Part Number-TP | Tape&Reel: 4Kpcs/Reel        |
| Part Number-AP | Ammo Packing: 3Kpcs/Ammo Box |
| Part Number-BP | Bulk: 25Kpcs/Carton          |

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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