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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



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HER501GP Thru HER508GP

Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Low forward voltage drop
- High reliability and High surge current capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C
- Typical Thermal Resistance: 30°C/W Junction To Lead

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| HER501GP | HER501GP | 50V | 35V | 50V |
| HER502GP | HER502GP | 100V | 70V | 100V |
| HER503GP | HER503GP | 200V | 140V | 200V |
| HER504GP | HER504GP | 300V | 210V | 300V |
| HER505GP | HER505GP | 400V | 280V | 400V |
| HER506GP | HER506GP | 600V | 420V | 600V |
| HER507GP | HER507GP | 800V | 560V | 800V |
| HER508GP | HER508GP | 1000V | 700V | 1000V |

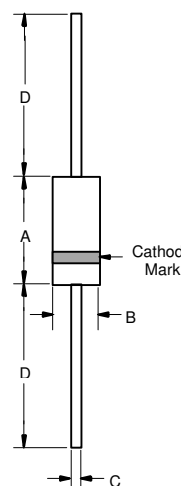
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|--|-------------|----------------------|---|
| Average Forward Current | $I_{F(AV)}$ | 5.0A | $T_C = 55^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 160A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage HER501GP-HER503GP HER504GP-HER505GP HER506GP-HER508GP | V_F | 1.0V 1.3V 1.7V | $I_{FM} = 5.0A$; $T_A = 25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 5uA | $T_A = 25^\circ\text{C}$ |
| Maximum Reverse Recovery Time HER501GP-HER505GP HER506GP-HER508GP | T_{rr} | 50ns 75ns | $I_F=0.5A$, $I_R=1.0A$ $I_{RR}=0.25A$ |
| Typical Junction Capacitance HER501GP-HER505GP HER506GP-HER508GP | C_J | 100pF 65pF | Measured at 1.0MHz, $V_R=4.0V$ |

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

5.0 Amp Glass Passivated High Efficient Rectifiers 50 to 1000 Volts

DO-201AD



| DIM | INCHES | | MM | | NOTE |
|-----|--------|------|-------|------|------|
| | MIN | MAX | MIN | MAX | |
| A | .287 | .374 | 7.30 | 9.50 | |
| B | .189 | .208 | 4.80 | 5.30 | |
| C | .048 | .052 | 1.20 | 1.30 | |
| D | 1.000 | --- | 25.40 | --- | |

HER501GP THRU HER508GP

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

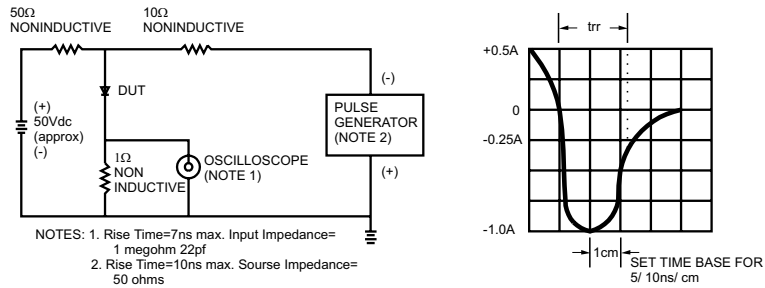


FIG.2- MAXIMUM AVERAGE FORWARD CURRENT DERATING

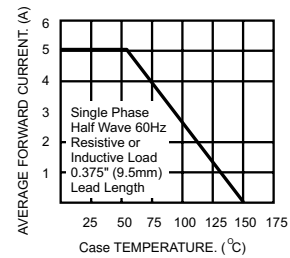


FIG.3- TYPICAL REVERSE CHARACTERISTICS

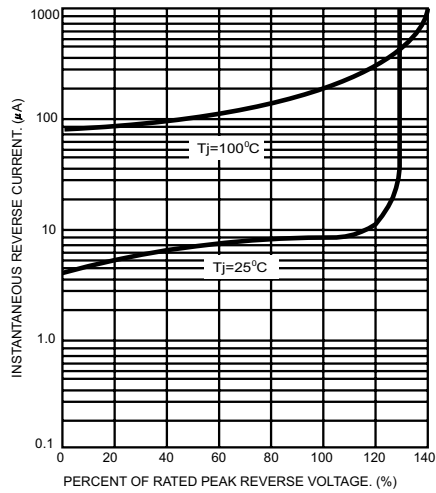


FIG.5- TYPICAL FORWARD CHARACTERISTICS

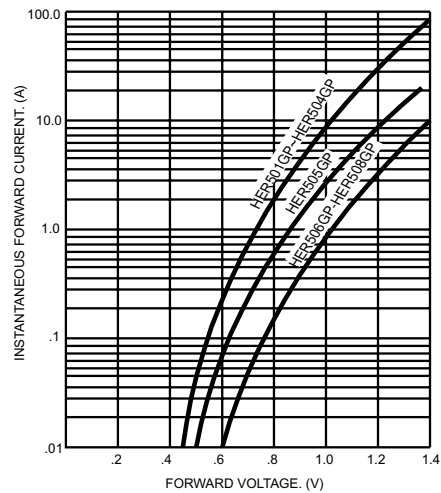


FIG.4- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

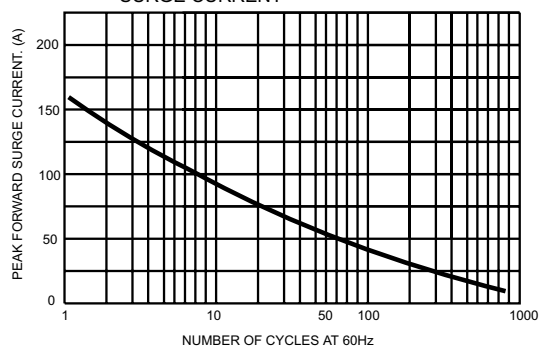
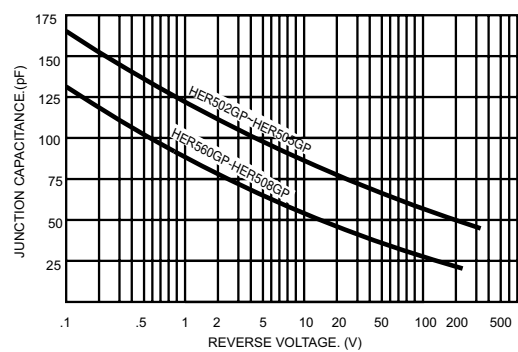


FIG.6- TYPICAL JUNCTION CAPACITANCE





Micro Commercial Components

Ordering Information :

| Device | Packing |
|----------------|--------------------------------|
| Part Number-TP | Tape&Reel: 1.2Kpcs/Reel |
| Part Number-AP | Ammo Packing: 1.2Kpcs/Ammo Box |
| Part Number-BP | Bulk: 12 Kpcs/Carton |

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

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