

Micro Commercial Components



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Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

- High Surge Current Capability High Reliability Low Forward Voltage Drop Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

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

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|--|---------|----------------------|---------|----------|--|--|
| MCC | Device | Maximum | Maximum | Maximum | | |
| Catalog | Marking | Recurrent | RMS | DC | | |
| Number | | Peak Reverse Voltage | | Blocking | | |
| | | Voltage | _ | Voltage | | |
| HER151 | HER151 | 50V | 35V | 50V | | |
| HER152 | HER152 | 100V | 70V | 100V | | |
| HER153 | HER153 | 200V | 140V | 200V | | |
| HER154 | HER154 | 300V | 210V | 300V | | |
| HER155 | HER155 | 400V | 280V | 400V | | |
| HER156 | HER156 | 600V | 420V | 600V | | |
| HER157 | HER157 | 800V | 560V | 800V | | |
| HER158 | HER158 | 1000V | 700V | 1000V | | |

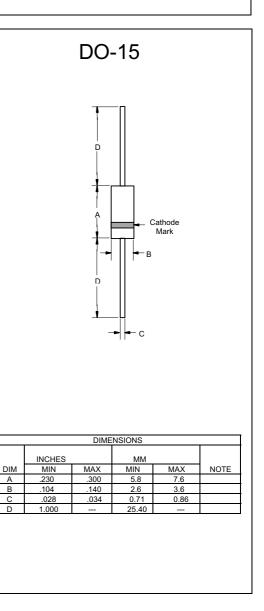
Electrical Characteristics @ 25°C Unless Otherwise Specified-

| Average Forward Current | I _{F(AV)} | 1.5 A | T _A = 55°C | |
|---|--------------------|----------------------|---|--|
| Peak Forward Surge Current | I _{FSM} | 50A | 8.3ms, half sine | |
| Maximum Instantaneous Forward Voltage | | | | |
| HER151-154 HER155 HER156-158 | V _F | 1.0V 1.3V 1.7V | I _{FM} = 1.5A*; T _A = 25°C | |
| Reverse Current At Rated DC Blocking Voltage (Maximum DC) | I _R | 5.0μΑ 100μΑ | T _A = 25°C T _A = 100°C | |
| Maximum Reverse Recovery Time HER151-155 HER156-158 | T _{rr} | 50ns 75ns | I _F =0.5A, I _R =1.0A, I _{rr} =0.25A | |
| Typical Junction Capacitance HER151-155 HER156-158 | CJ | 50pF 30pF | Measured at 1.0MHz, V _R =4.0V | |
| *Pulse Test: Pulse Width 300µsec, Duty Cycle 1% | | | | |

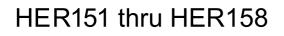
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

HER151 THRU **HER158**

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



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RATINGS AND CHARACTERISTIC CURVES

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

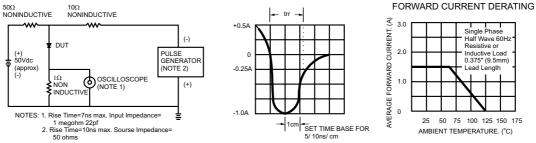
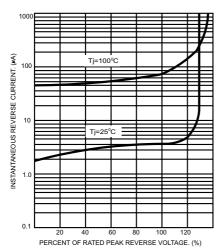


FIG.3- TYPICAL REVERSE CHARACTERISTICS





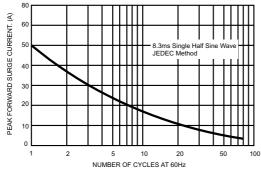


FIG.4- TYPICAL FORWARD CHARACTERISTICS

FIG.2- MAXIMUM AVERAGE

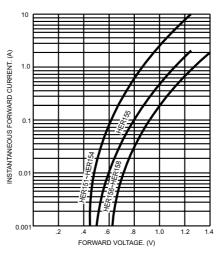
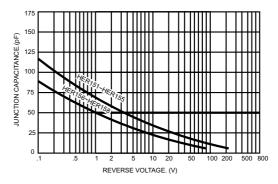


FIG.6- TYPICAL JUNCTION CAPACITANCE



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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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