



Micro Commercial Components

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Features

- Low Leakage Current
- Fast Switching for High Efficiency
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance; 60°C/W Junction To Case
18°C/W Junction To Ambient

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| 1H1 | 1H1 | 50V | 35V | 50V |
| 1H2 | 1H2 | 100V | 70V | 100V |
| 1H3 | 1H3 | 200V | 140V | 200V |
| 1H4 | 1H4 | 400V | 280V | 400V |
| 1H5 | 1H5 | 600V | 420V | 600V |
| 1H6 | 1H6 | 800V | 560V | 800V |
| 1H7 | 1H7 | 1000V | 700V | 1000V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

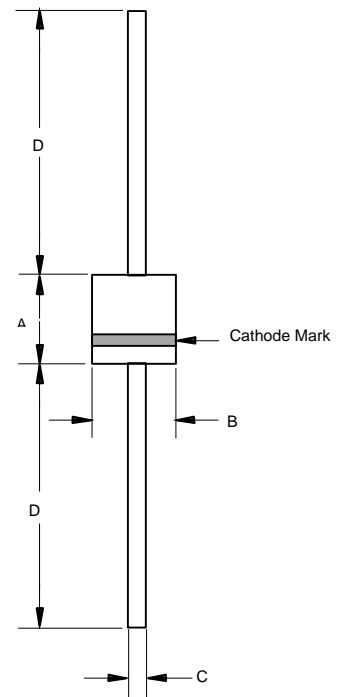
| | | | |
|--|-------------|----------------------|---|
| Average Forward Current | $I_{F(AV)}$ | 1.0A | $T_A = 55^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 30A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage 1H1-4 1H5 1H6-1H7 | V_F | 1.0V 1.3V 1.7V | $I_{FM} = 1.0\text{A};$ $T_J = 25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 5.0uA 150uA | $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$ |
| Maximum Reverse Recovery Time 1H1-1H5 1H6-1H7 | T_{rr} | 50ns 75ns | $I_F=0.5\text{A}, I_R=1.0\text{A}$ $I_{RR}=0.25\text{A}$ |
| Typical Junction Capacitance 1H1-1H5 1H6-1H7 | C_J | 20pF 15pF | Measured at 1.0MHz, $V_R=4.0\text{V}$ |

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

**1H1
THRU
1H7**

**1.0 Amp High
Efficient Rectifier
50 - 1000 Volts**

R-1



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|-------|-------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | 0.116 | 0.140 | 2.90 | 3.50 | |
| B | 0.091 | 0.102 | 2.30 | 2.60 | |
| C | 0.020 | 0.024 | 0.50 | 0.60 | |
| D | 0.787 | ----- | 20.00 | ----- | |



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Ordering Information

| Device | Packing |
|------------------|----------------------------|
| (Part Number)-TP | Tape&Reel; 5Kpcs/Reel |
| (Part Number)-AP | Ammo Packing;3Kpcs/AmmoBox |
| (Part Number)-BP | Bulk;1Kpcs/Box |

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