



Micro Commercial Components



Micro Commercial Components
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BR1005 THRU BR1010

Features

- Low Forward Voltage Drop
- Plastic Case
- Any Mounting Position
- Surge Rating of 150 Amps
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

- Mounting Torque: 4.5 in-lbs Maximum
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

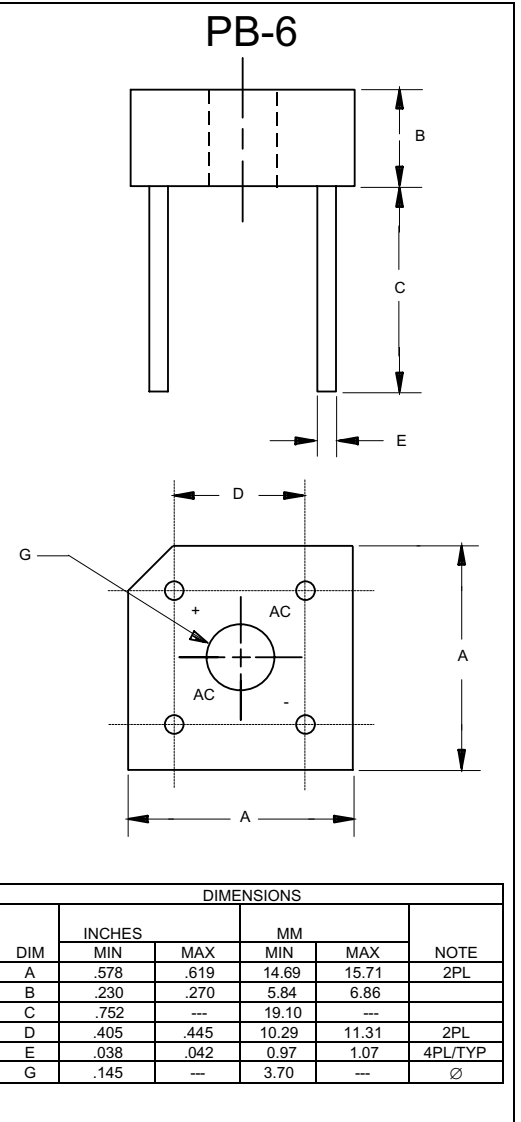
| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|--|---------------------|-----------------------------|
| BR1005 | BR1005 | 50V | 35V | 50V |
| BR101 | BR101 | 100V | 70V | 100V |
| BR102 | BR102 | 200V | 140V | 200V |
| BR104 | BR104 | 400V | 280V | 400V |
| BR106 | BR106 | 600V | 420V | 600V |
| BR108 | BR108 | 800V | 560V | 800V |
| BR1010 | BR1010 | 1000V | 700V | 1000V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|-------------------|---|
| Average Forward Current | $I_{F(AV)}$ | 10.0A | $T_c = 75^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 150A | 8.3ms, half sine |
| Maximum Forward Voltage Drop Per Element | V_F | 1.1V | $I_{FM} = 5A$ per element; $T_J = 25^\circ\text{C}$ (Note 2) |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 10 μ A 2mA | $T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$ |

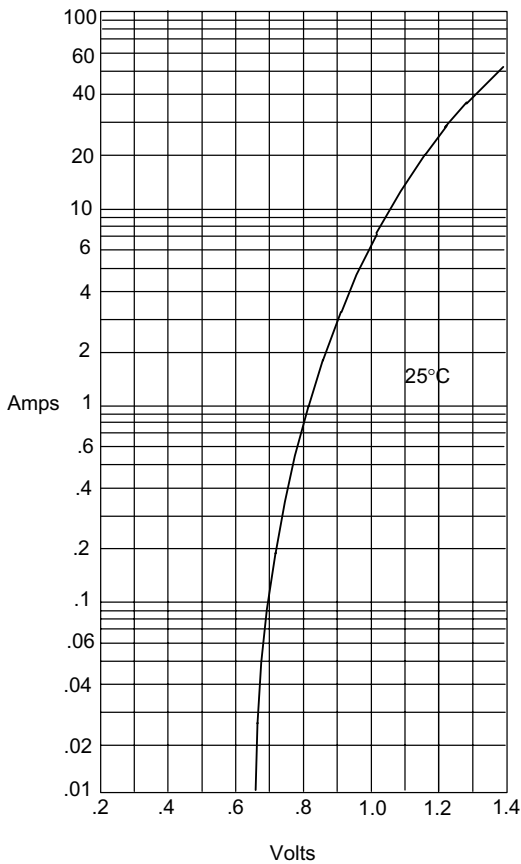
- Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7
 2. Pulse Test: Pulse Width 300usec, Duty Cycle 1%

10 Amp Single Phase Bridge Rectifier 50 to 1000 Volts



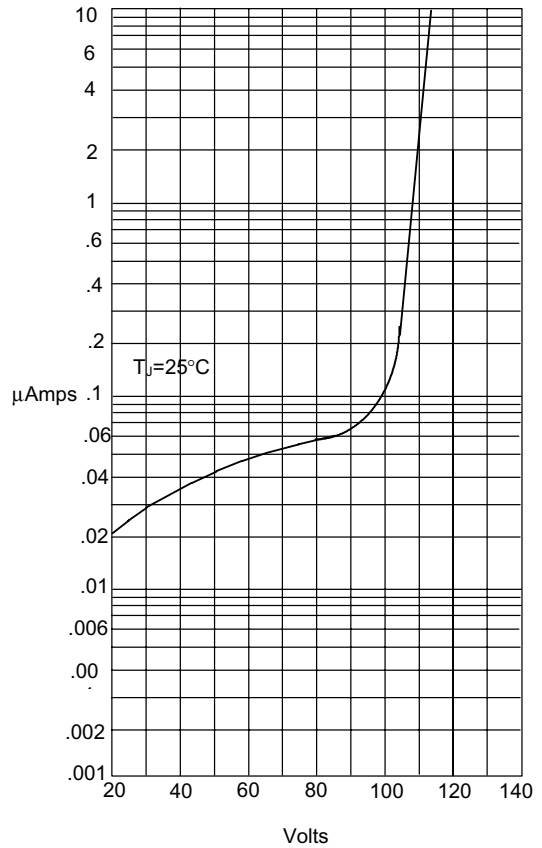
BR1005 thru BR1010

Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2 **Micro Commercial Components**
Typical Reverse Characteristics



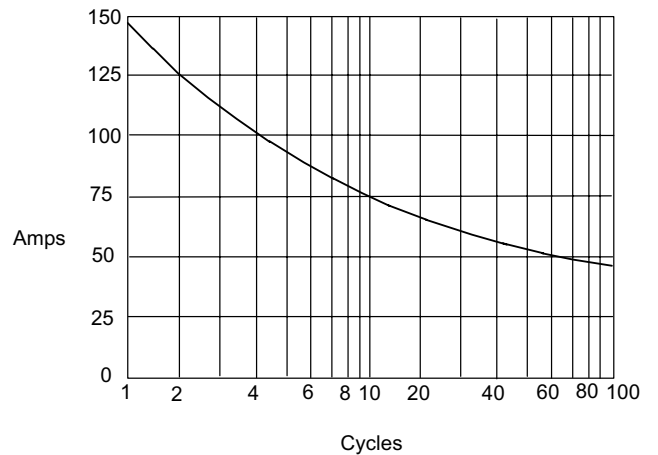
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



Average Forward Rectified Current - Amperes *versus*
Case Temperature - °C

Figure 4
Peak Forward Surge Current



Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles



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Ordering Information :

| Device | Packing |
|----------------|----------------------|
| Part Number-BP | Bulk: 1.6Kpcs/Carton |

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

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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