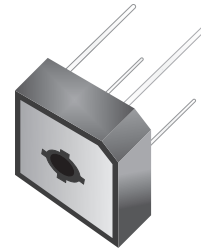


MP10005G-G Thru. MP1010G-G

Reverse Voltage: 50 to 1000V

Forward Current: 10.0A

RoHS Device



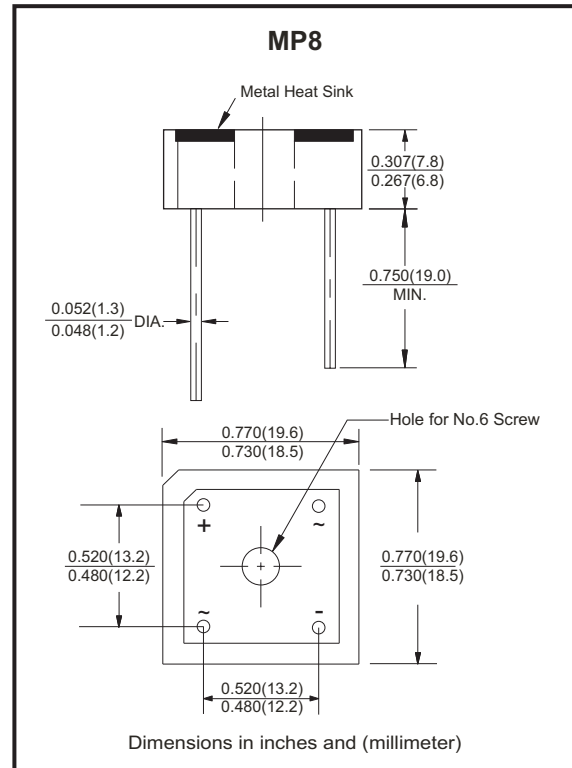
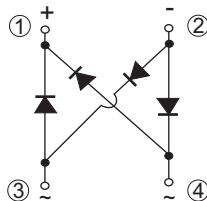
Features

- Surge overload rating -175 amperes peak.
- Low forward voltage drop.
- Small size ; simple installation.
- Sliver plated copper leads.
- UL recognized file # E349301

Mechanical Data

- Polarity: As marked on Body
- Mounting position: Any
- Weight: 7.33 grams

Circuit Diagram



Maximum ratings and electrical characteristics

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave ,60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

| Parameter | Symbol | MP10 005G-G | MP10 01G-G | MP10 02G-G | MP10 04G-G | MP10 06G-G | MP10 08G-G | MP10 10G-G | Unit |
|---|------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Bridge Input Voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Output Current at $T_A=50^\circ\text{C}$ | $I_{(AV)}$ | 10.0 | | | | | | | A |
| Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Super Imposed On Rated Load | I_{FSM} | 175 | | | | | | | A |
| Maximum Forward Voltage Drop Per Bridge Element at 5.0A Peak | V_F | 1.1 | | | | | | | V |
| Maximum Reverse Current at Rate $T_J=25^\circ\text{C}$ DC Blocking Voltage Per Element $T_J=100^\circ\text{C}$ | I_R | 10.0 | | | | | | | μA |
| | | 1.0 | | | | | | | mA |
| Operating Temperature Range | T_J | -55 to +150 | | | | | | | $^\circ\text{C}$ |
| Storage Temperature Range | T_{STG} | -55 to +150 | | | | | | | $^\circ\text{C}$ |

Company reserves the right to improve product design , functions and reliability without notice.

REV: C

Rating and Characteristics Curves (MP10005G-G Thru. MP1010G-G)

Fig.1 - Derating Curve Output Rectified Current

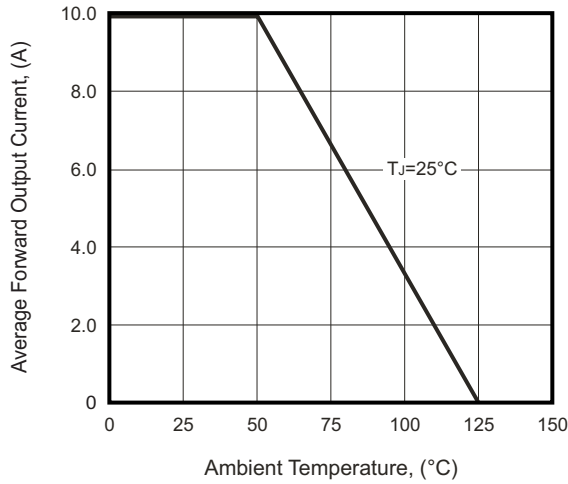


Fig.2 - Maximum Forward Surge Current

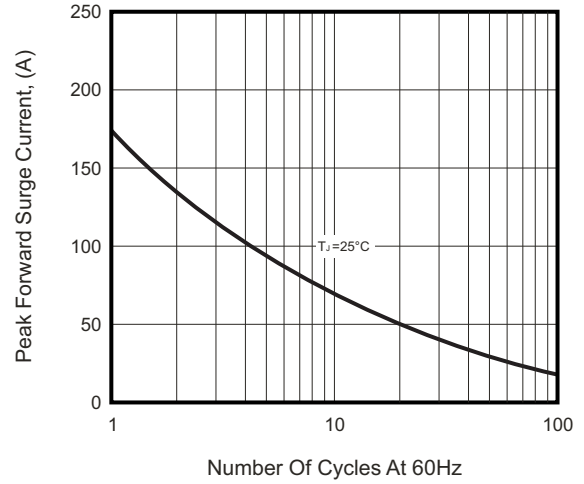


Fig.3 - Typical Forward Characteristics

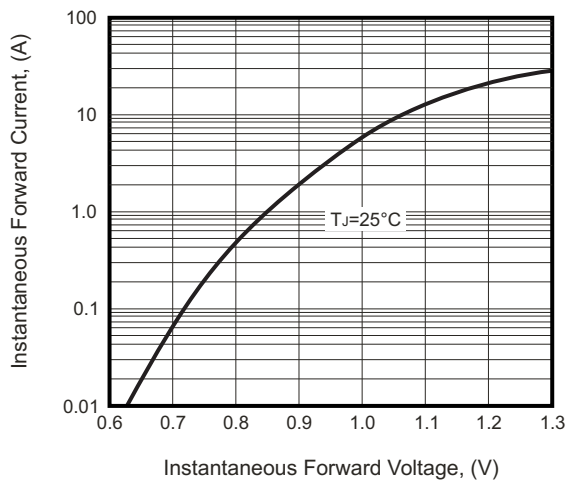
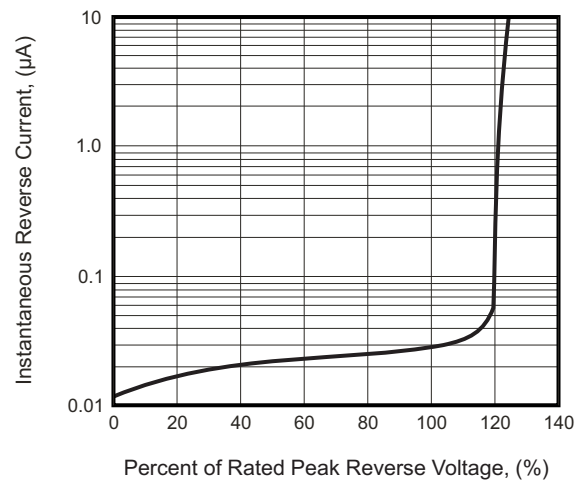
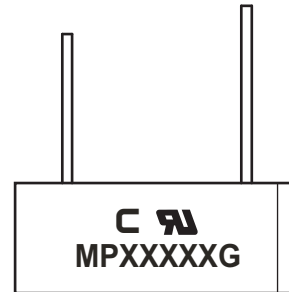


Fig.4 - Typical Reverse Characteristics



Marking Code

| Part Number | Marking code |
|-------------|--------------|
| MP10005G-G | MP10005G |
| MP1001G-G | MP1001G |
| MP1002G-G | MP1002G |
| MP1004G-G | MP1004G |
| MP1006G-G | MP1006G |
| MP1008G-G | MP1008G |
| MP1010G-G | MP1010G |



XXXXX / XXXX = Product type marking code
C = Compchip Logo

Standard Packaging

| Case Type | BULK PACK | |
|-----------|----------------|-------------------|
| | BOX (pcs) | CARTON (pcs) |
| MP8 | 200 | 2,000 |

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[GSIB680-E3/45](#) [DB101-BP](#) [DF01](#) [DF10SA-E345](#) [KBPC50-10S](#) [RS405GL-BP](#) [G5SBA60-E3/51](#) [GBU10J-BP](#) [GBU6M](#) [GBU8D-BP](#)
[GBU8J-BP](#) [GSIB1520-E3/45](#) [36MB140A](#) [TB102M](#) [MB1510](#) [MB258](#) [MB6M-G](#) [MB86](#) [TL401G](#) [MDA920A2](#) [TU602](#) [TU810](#) [BR1005-BP](#)
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[40MT160PAPBF](#) [W02M](#) [GBL02-E3/45](#) [GBU4G-BP](#) [GBJ2506-BP](#) [GBU6B-E3/51](#) [GSIB15A80-E3/45](#)