



**THE DATASHEET OF  
MP1010G-G**

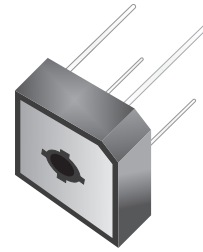


## MP10005G-G Thru. MP1010G-G

Reverse Voltage: 50 to 1000V

Forward Current: 10.0A

RoHS Device



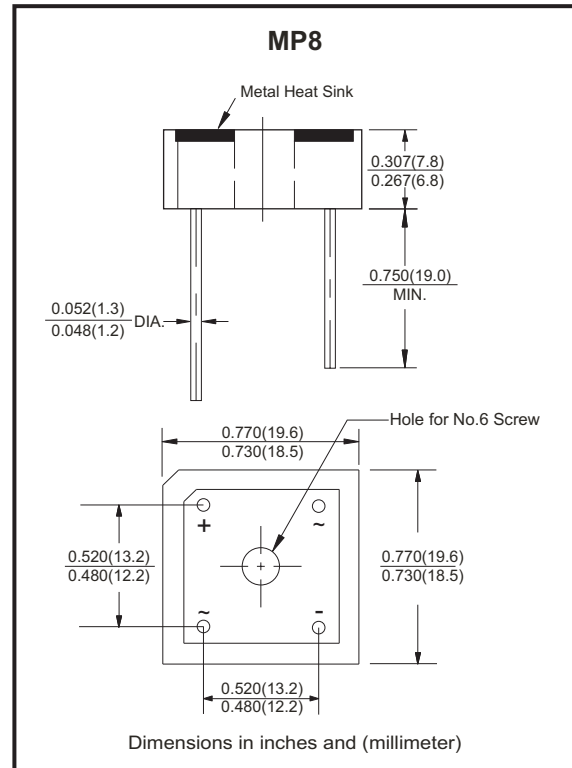
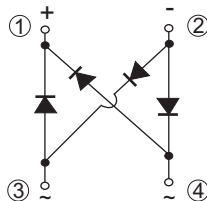
### Features

- 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							$\mu\text{A}$
		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

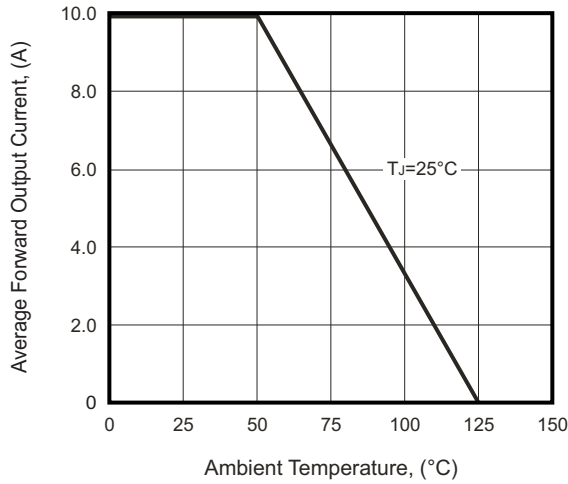


Fig.2 - Maximum Forward Surge Current

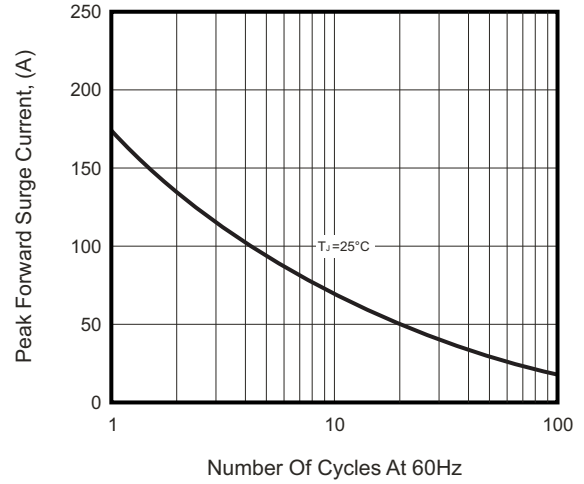


Fig.3 - Typical Forward Characteristics

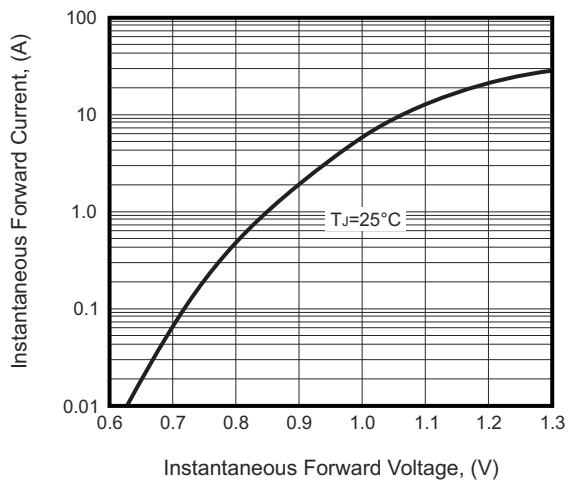
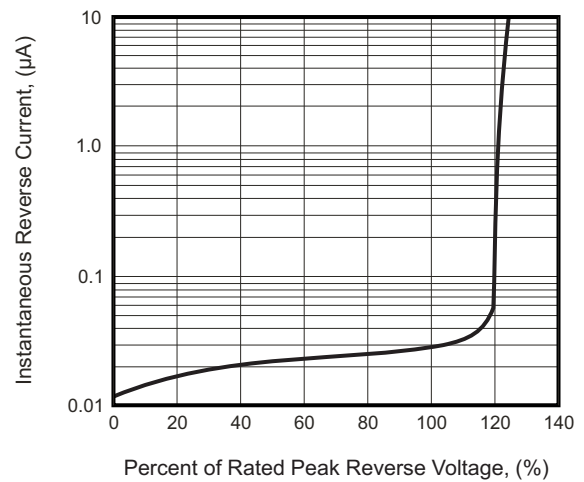
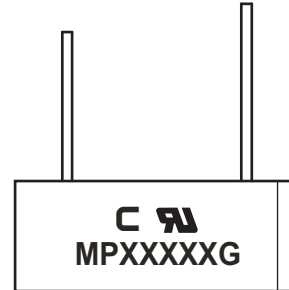


Fig.4 - Typical Reverse Characteristics



## 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

## Looking for pricing, stock, or lifecycle information?

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- ✓ Cost Control Management
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- ✓ Alternative Solution
- ✓ Excess Inventory Management