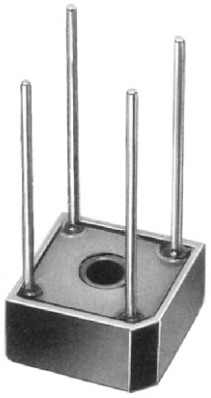
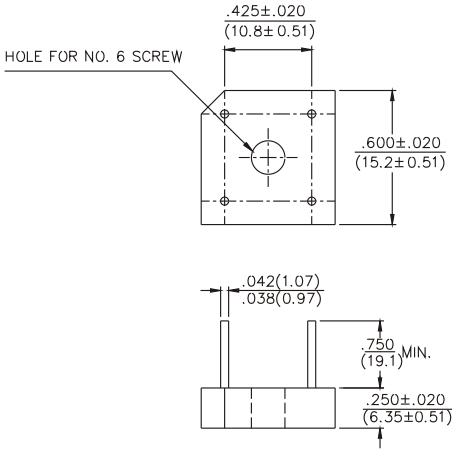
MP6 SERIES

SINGLE-PHASE SILICON BRIDGE

CHENG-YI
ELECTRONIC



REVERSE VOLTAGE -50 to 1000 Volts
FORWARD CURRENT -6.0 Amperes



Polarity shown on side of case;
positive lead by beveled corner.

Dimensions in inches and (millimeters)

FEATURES

- Surge overload rating - 125 amperes peak
- Low forward voltage drop
- Small size: simple installation
- Silver Plated Copper Leads
- Mounting Position: Any
- Case: Molded plastic with Heatsink interally mounted in the bridge encapsulation

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	MP6005	MP601	MP602	MP604	MP606	MP608	MP610	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Outptu Current at T_C=100°C(Note1) T_A=50°C(Note2)	6.0 3.0							A
Peak Forward Surge Current 8.3 ms single half sine-wave super imposed on rated load	125							A
Maximum Forward Voltage Drop per Bridge Element at 3.0A Peak	1.0							V
Maximum Reverse Current at Rated DC Blocking Voltage per Element T_A=25°C T_A=100°C	10.0 1.0							μA mA
Operating Temperature Range T_C	-55 to +125							°C
Storage Temperature Range T_A	-55 to +150							°C

NOTES: 1. Unit mounted on metal chassis
2. Unit mounted on P.C. Board

MP6 SERIES

SINGLE-PHASE SILICON BRIDGE

CHENG-YI
ELECTRONIC

RATING AND CHARACTERISTICS CURVES
MP6 SERIES

FIG. 1 - DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT

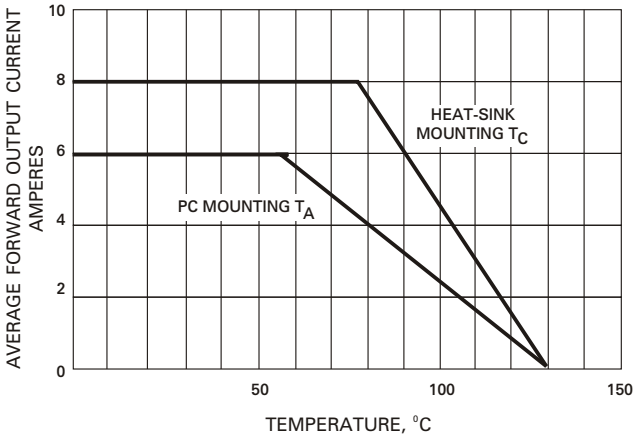


FIG. 2 - TYPICAL REVERSE
CHARACTERISTICS

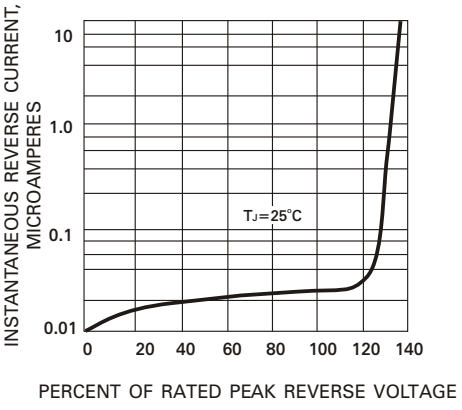


FIG. 3 - MAXIMUM FORWARD SURGE CURRENT

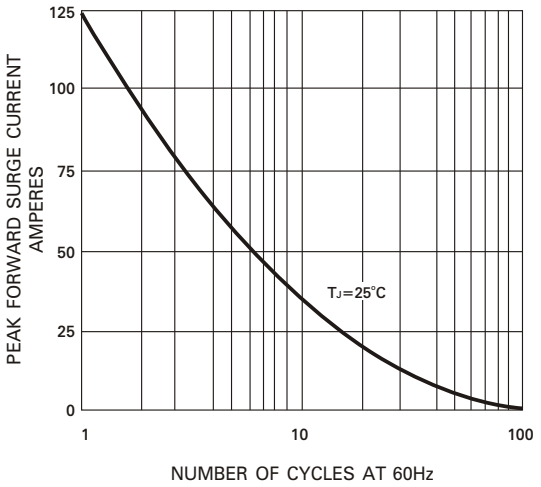


FIG.4 - TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

