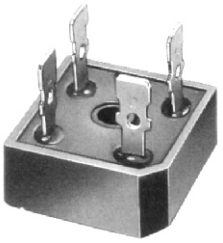
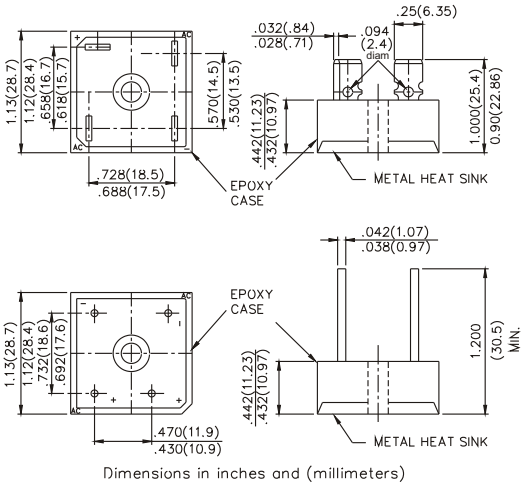
MP15,25,35 SERIES

15/25/35 AMPS.
SILICON BRIDGE RECTIFIERS

CHENG-YI
ELECTRONIC



VOLTAGE RANGE
50 TO 1000 VOLTS PRV
CURRENT
15.25.35. Amperes



Dimensions in inches and (millimeters)

FEATURES

- Rating to 1000V PRV
- 400 Amperes surge capability
- High efficiency
- Weight:0.7 ounce 20 grams
- For maximum heat dissipation
- Mounting: thru hole for #8 screw
- UL Recognized file #E149311

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%.

MP 15/25/35		MP005 / MP005W	MP01 / MP01W	MP02 / MP02W	MP04 / MP04W	MP06 / MP06W	MP08 / MP08W	MP10 / MP10W	UNITS
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 Output Current @ T_C=55°C — MP12 / MP25 / MP35	$V_{(AV)}$	15 / 25 / 35							A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Mehtod) — MP15 / MP25 / MP35	I_{FSM}	250 / 300 / 400							A
Maximum Forward Voltage per Bridge element — MP15 7.5A, MP25 12.5A, MP35 17.5A at IF	V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Bridge element — @ T_A=25°C	I_R	5							μA
@ T_A=100°C	I_R	200							μA
I^2t Rating for fusing (t<8.3ms)	I^2t	374/664							A^2S
Typical Thermal Resistance(Note.1)	R θ JC	2.0							°C/W
Operating Temperature Range	T_J	-55 to +125							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

NOTE: 1.Mounted on a 11.8in^2 X 0.006 in thick (300mm^2 X 1.5mm thick) Copper plate.
2.Fast Recovery, Controlled avalanche bridges are available. Please consuit with factory.

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RATING AND CHARACTERISTICS CURVES
MP15, 25, 35 SERIES

Fig. 1 - FORWARD DERATING CURVE

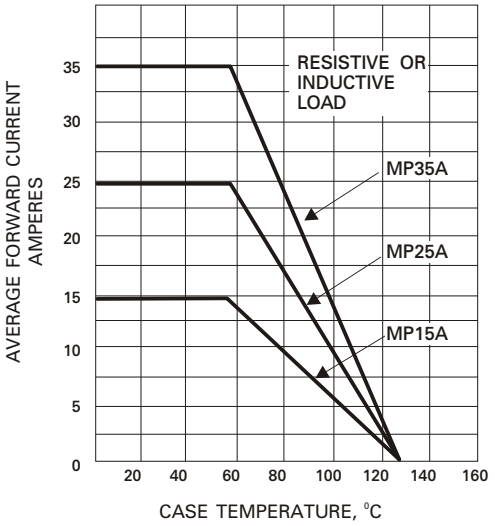

Fig. 2 - PAEK FORWARD SURGE CURRENT

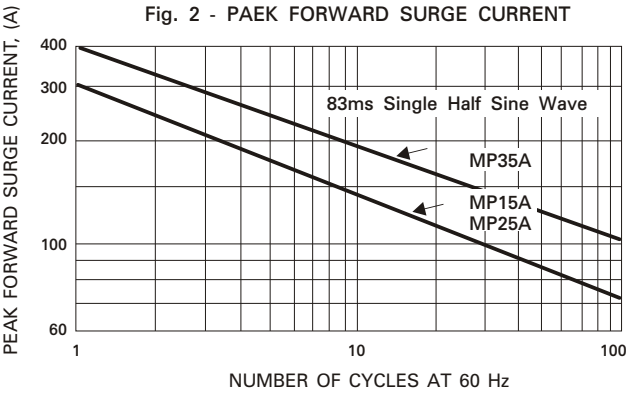

Fig. 3 - TYPICAL FORWARD CHARACTERISTICS

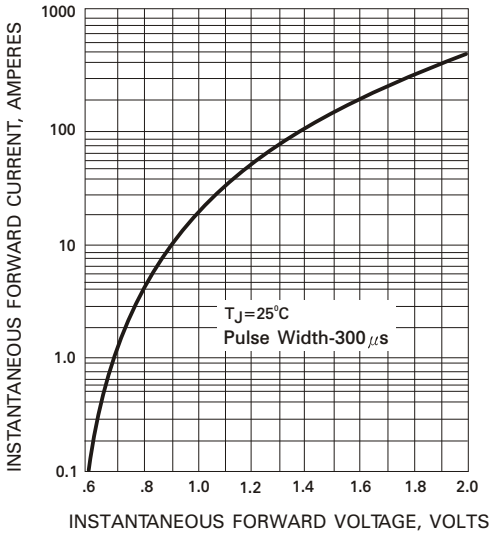

Fig. 4 - TYPICAL REVERSE CHARACTERISTICS