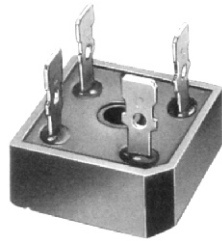


# MP15,25,35 SERIES

15/25/35 AMPS.  
SILICON BRIDGE RECTIFIERS



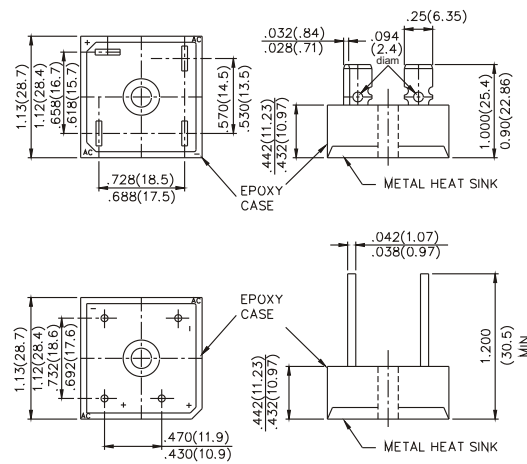
**CHENG-YI  
ELECTRONIC**



## 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

VOLTAGE RANGE  
50 TO 1000 VOLTS PRV  
CURRENT  
15.25.35. Amperes



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

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

# MP15,25,35 SERIES

15/25/35 AMPS.  
SILICON BRIDGE RECTIFIERS



CHENG-YI  
ELECTRONIC

## RATING AND CHARACTERISTICS CURVES MP15, 25, 35 SERIES

Fig. 1 - FORWARD DERATING CURVE

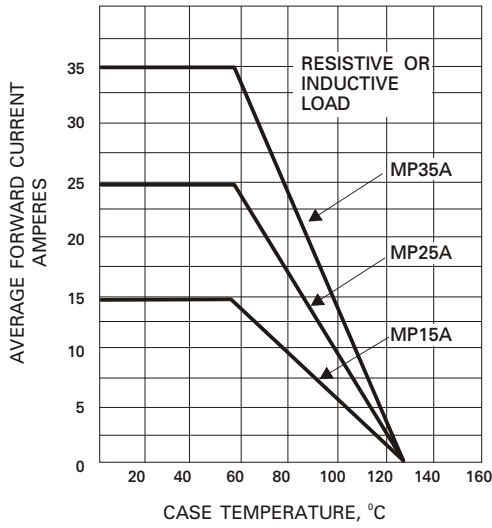


Fig. 2 - PAKK FORWARD SURGE CURRENT

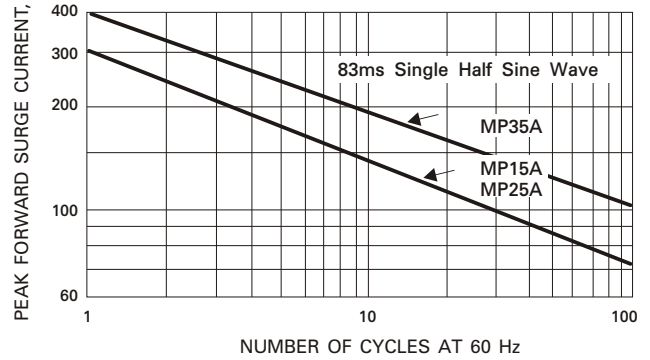


Fig. 3 - TYPICAL FORWARD CHARACTERISTICS

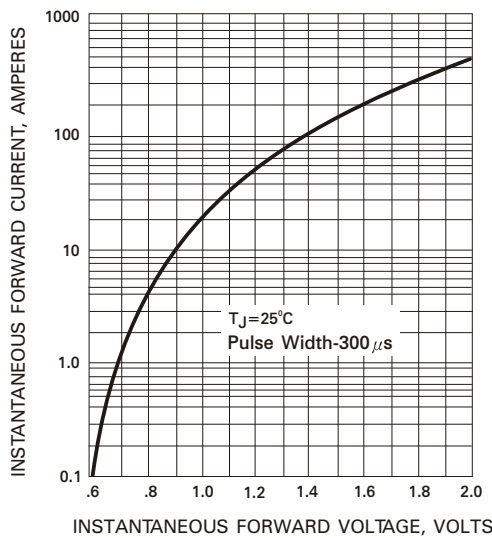


Fig. 4 - TYPICAL REVERSE CHARACTERISTICS

