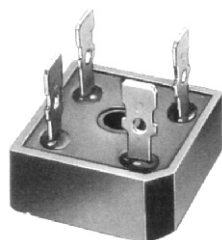


MP15,25,35 SERIES

15/25/35 AMPS.
SILICON BRIDGE RECTIFIERS

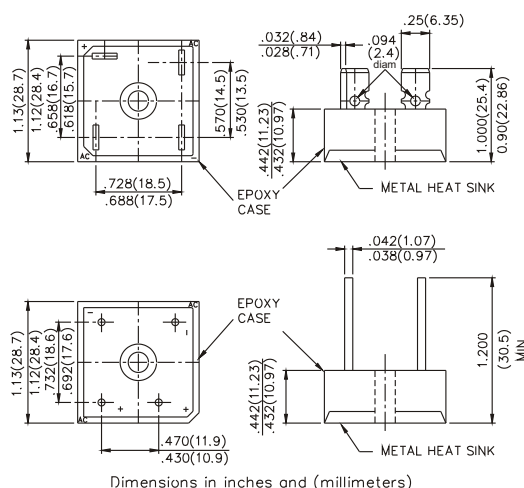
**CHENG-YI
ELECTRONIC**



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 @ $T_C=55^\circ\text{C}$	$V_{(AV)}$	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	1.1							V
Maximum DC Reverse Current at Rated DC	I_R	5							μA
Blocking Voltage per Bridge element		200							μA
$I^2 t$ Rating for fusing ($t < 8.3\text{ms}$)	$I^2 t$	374/664							A^2S
Typical Thermal Resistance(Note.1)	$R_{\theta JC}$	2.0							$^\circ\text{C/W}$
Operating Temperature Range	T_J	-55 to +125							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

NOTE: 1. Mounted on a 11.8in² X 0.006 in thick (300mm² 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

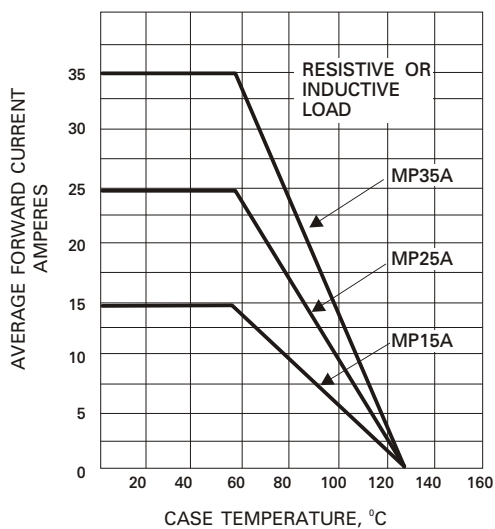


Fig. 2 - PAKC FORWARD SURGE CURRENT

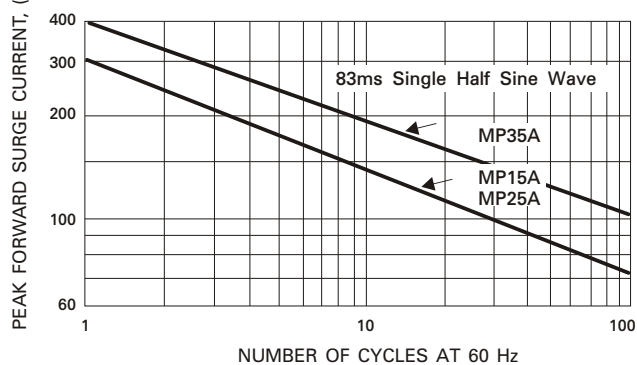


Fig. 3 - TYPICAL FORWARD CHARACTERISTICS

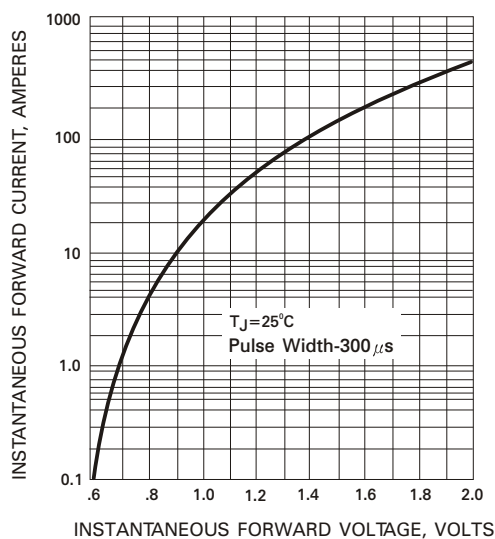


Fig. 4 - TYPICAL REVERSE CHARACTERISTICS

