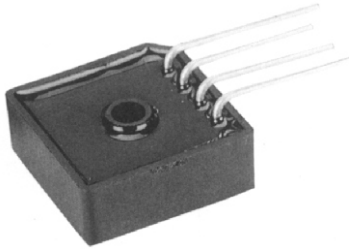


MP15,25,35, S SERIES

15/25/35 AMPS.
SILICON BRIDGE RECTIFIERS



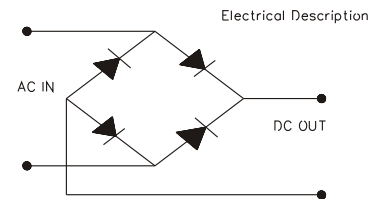
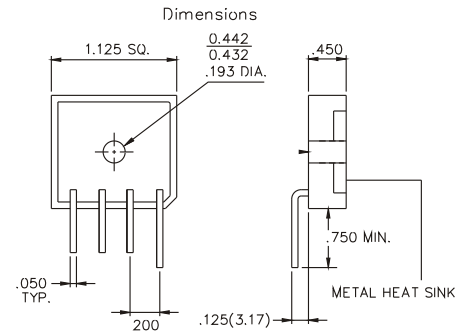
CHENG-YI
ELECTRONIC



FEATURES

- The plastic material used carries Underwriters Laboratory flammability recognition 94v-0
- Integrally molded heats provide very low thermal resistance for maximum heat dissipation.
- Universt 4-way terminals; snap-on, wraparound, solder or P.C.board mounting
- Surge overload rating to 400 Amperes
- Terminals solderable per MIL-STD-202, Method 208
- Typical Soderable guaranteed: 250oC/10 second/.375"
- solt Voltage from case to terminal over 2500 volts

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 S		MP005S	MP01S	MP02S	MP04S	MP06S	MP08S	MP10S	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 @ $T_C=55^\circ\text{C}$	$V_{(AV)}$	15 KBPC25S 35			15 25 35				A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Mehtod)	I_{FSM}	15 25 35			250 300 400				A
Maximum Forward Voltage per Bridge element	V_F	15 KBPC25S at IF 35			11				V
Maximum DC Reverse Current at Rated DC	I_R	@ $T_A=25^\circ\text{C}$ @ $T_A=100^\circ\text{C}$			10 500				μA
Blocking Voltage per Bridge element									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 0.06 in thick (300mm² X 1.5mm thick) Copper plate.

2. Fast Recovery, Controlled avalanche bridges are available. Please consult with factory.

MP15,25,35, S SERIES

15/25/35 AMPS.
SILICON BRIDGE RECTIFIERS



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

Fig. 1 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

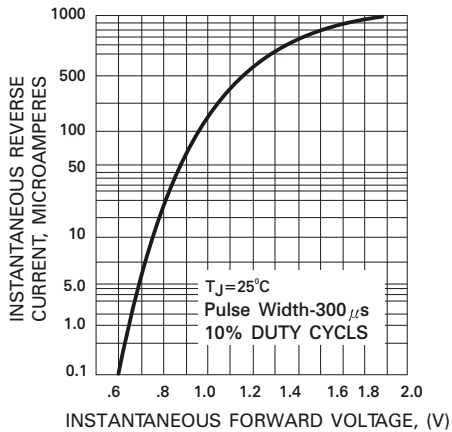


Fig. 4 - MAXIMUM POWER DISPATION

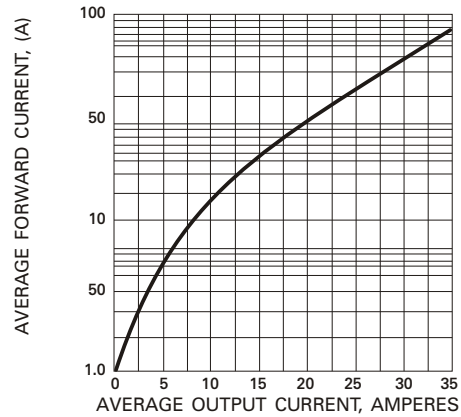


Fig. 2 - MAXIMUM OUTPUT RECTIFIED CURRENT

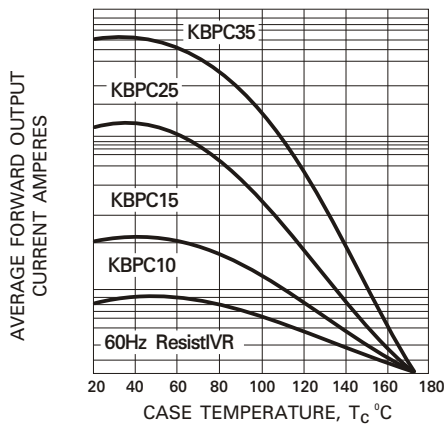


Fig. 5 - TYPICAL REVERSE CHARACTERISTICS
AT $T_J = 25^\circ\text{C}$

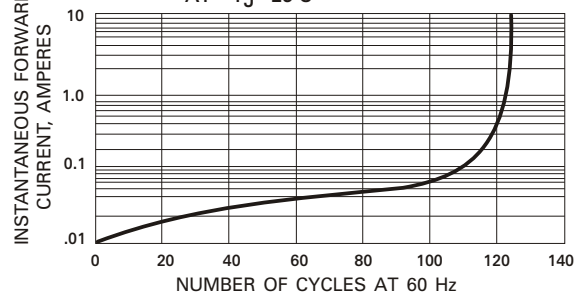


Fig. 3 - MAXIMUM OUTPUT RECTIFIED CURRENT

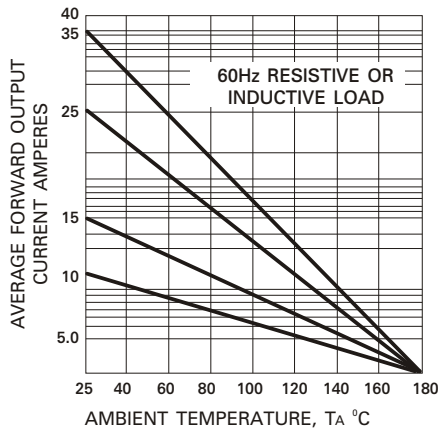


Fig. 6 - MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

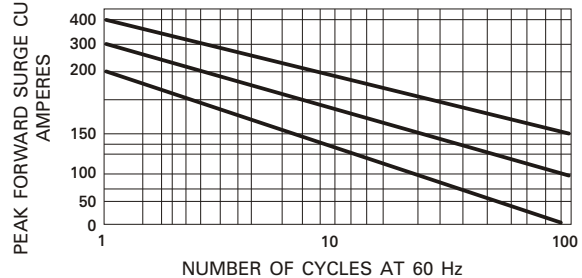


Fig. 7 - TYPICAL JUNCTION CAPACITANCE PER
BRIDGE ELEMENT

