HFZT

KBPC50005W — KBPC5010W

SILICON BRIDGE RECTIFIER

Reverse Voltage - 50 to 1000 V
Forward Current - 50.0 A

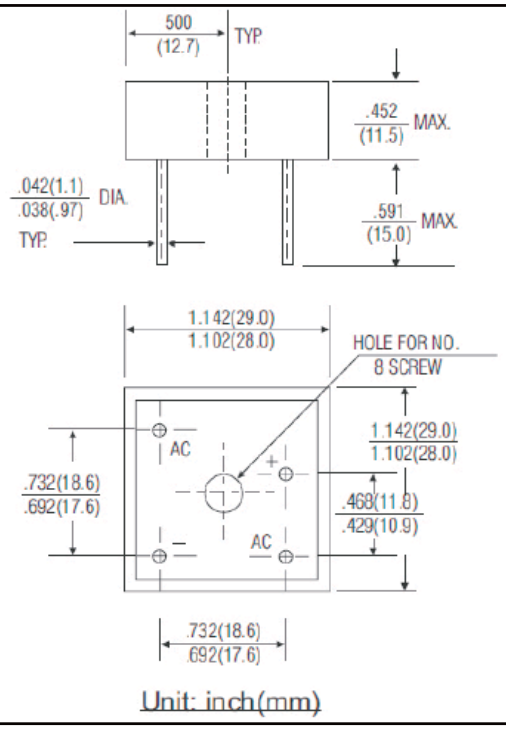
FEATURES

- Molod case maximum heat dissipation
- Surge overload ratings -400 Amperes
- low forward voltage drop

MECHANICAL DATA

- Case style: KBPC plastic molded
- Mounting: thru hole for # 8 screw mounting
- Polarity:As marked
- Epoxy:ul94v-0 rate flame retardant

KBP



Unit: inch(mm)

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)Single phase,half wave,60 Hz,resistive or inductive load.
For capacitive load,derate by 20%.

MDD Catalog Number	SYMBOLS	KBPC 50005W	KBPC 5001W	KBPC 5002W	KBPC 5004W	KBPC 5006W	KBPC 5008W	KBPC 5010W	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	VOLTS
Maximum average forward output rectified current at Tc=50℃ (Note 1,2)	$I_{(AV)}$	50							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	500.0							Amps
Maximum instantaneous forward voltage dorp per bridge element at 25A	V_F	1.1							Volts
Maximum DC reverse current T_A=25°C	I_R	10							μA
at rated DC blocking voltage T_A=100℃		500							mA
Typical junction capacitance(Note1)	CJ	300							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	2.5							k/W
Operating and storage temperature range	T_J,T_{STG}	-55 to +125							°C

NOTES:
1. Measred at 1MHZ applied reverse voltage of 4.0v D.C
2. Themal resistance junction to case mounted on heatsink.

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RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICALFORWARD CURRENT DERATING CURVE

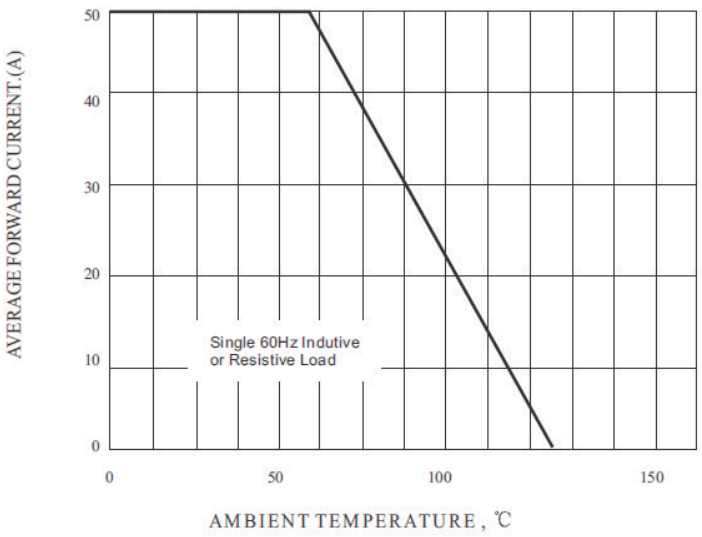

FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

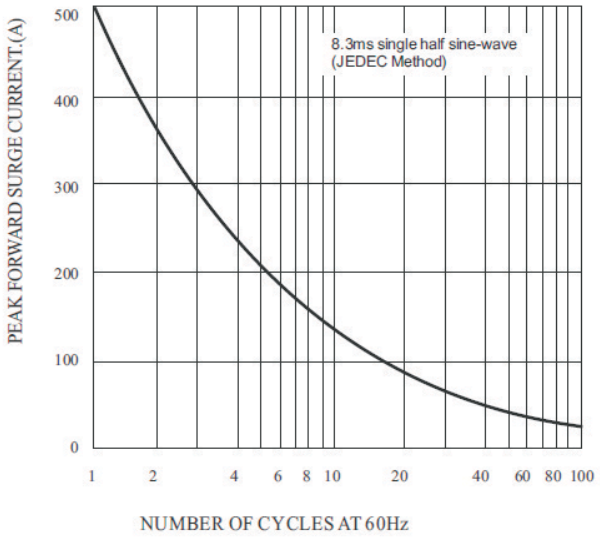

FIG.3-TYPICALFORWARD CUARACTERISTICS

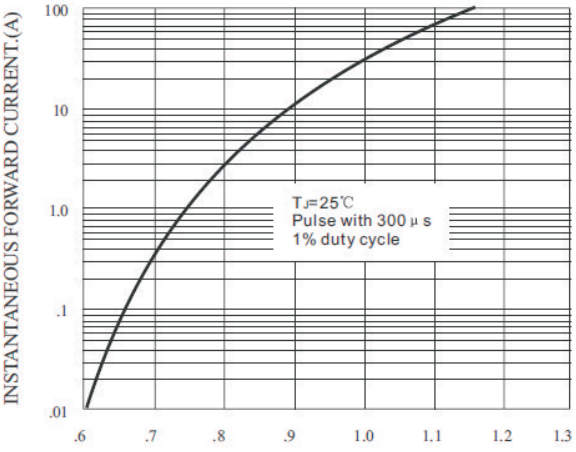

FIG.4-TYPICAL REVERSE CHARACTERISTICS