

KBPC15005W THRU KBPC1510W AND MB1505W THRU MB1510W

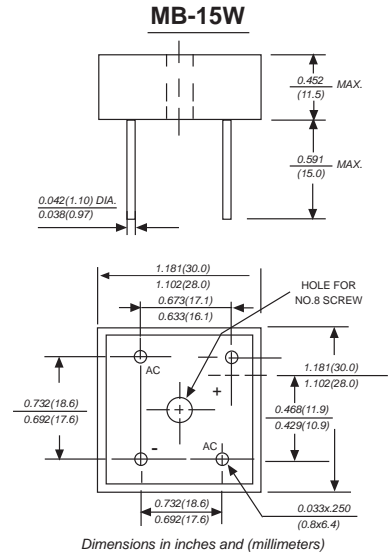
VOLTAGE RANGE 50 to 1000 Volts
CURRENT 15 Ampere

FEATURES

- The plastic package carries Underwriters Laboratory
- Flammability Classification 94V-0
- Ideal for printed circuit boards
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds, at 5 lbs. (2.3kg) tension

MECHANICAL DATA

- Case: Metal case
- Terminals : Lead 0.040" (1.02mm) diameter.
- Polarity : Polarity symbols marked on case
- Mounting : Thru hole for #8 screw, 20in.-lbs. torque max.
- Weight : 0.93 ounce, 26.4 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified.
- Single phase, half wave 60Hz, resistive or inductive load, for current capacitive load, derate by 20%.

	SYMBOLS	KBPC 15005W MR1505W	KBPC 1501W MB151W	KBPC 1502W MB152W	KBPC 1504W MB154W	KBPC 1506W MB156W	KBPC 1508W MR158W	KBPC 1510W MB1510W	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 $T_c=55^\circ\text{C}$ (Note 1,2)	$I_{(AV)}$	15							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	300.0							Amps
Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	373							A^2s
Maximum instantaneous forward voltage drop per bridge element at 7.5A	V_F	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage	I_R	$T_A=25^\circ\text{C}$							μA
		$T_A=100^\circ\text{C}$							mA
Isolation voltage from case to leads	V_{ISO}	2500							V_{AC}
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	2.0							$^\circ\text{C}/\text{W}$
Operating junction temperature range	T_J	-65 to +150							$^\circ\text{C}$
storage temperature range	T_{STG}	-65 to +150							$^\circ\text{C}$

NOTES:

1. Unit mounted on 5" x 4" x 3" thick (12.8cm x 10.2cm x 7.3cm) Al. plate.
2. Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #8 screw.

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