

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

KBPC 15005(W) THRU KBPC 1510(W)

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 15 Amperes

FEATURES

- * Metal case for maximum heat dissipation
- * Low forward voltage drop
- * High current capability

MECHANICAL DATA

* Case: Molded plastic

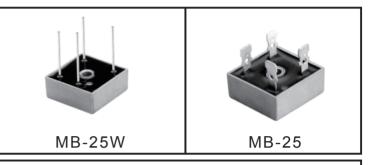
* Epoxy: UL 94-V0 rated flame retardant

* Lead: MIL-STD-202E, Method 208 guaranteed

* Polarity: Symbols molded or marked on body

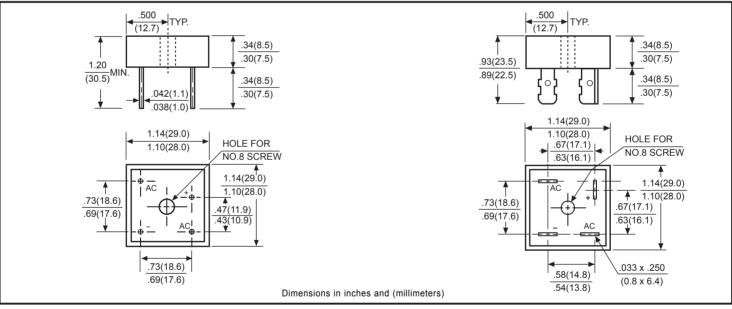
* Mounting position: Any

* Weight: 30 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 capacitive load, derate current by 20%.



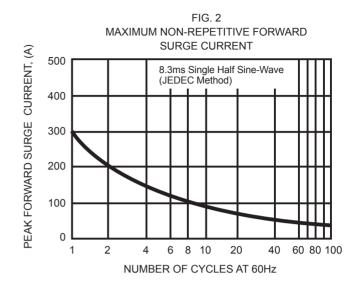
	SYMBOL	KBPC 15005(W)	KBPC 1501(W)	KBPC 1502(W)	KBPC 1504(W)	KBPC 1506(W)	KBPC 1508(W)	KBPC 1510(W)	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 55°C	lo	15							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	300						Amps	
Maximum Instantaneous Forward Voltage at 7.5A DC	VF	1.1						Volts	
Maximum DC Reverse Current at Rated $@TA = 25^{\circ}C$ DC Blocking Voltage $@TA = 125^{\circ}C$	- IR	10 100							μAmps
I ² t Rating for Fusing (t<8.3mS)	I ² t	373.5						A ² s	
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150						°C	

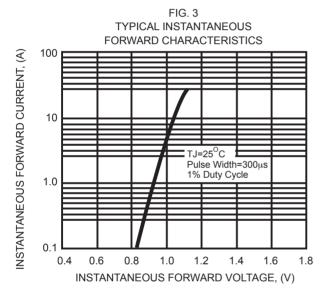
Note: Suffix "<u>W</u>" for wire lead type (e.g.:KBPC15005<u>W</u>,KBPC1501<u>W</u>...etc)

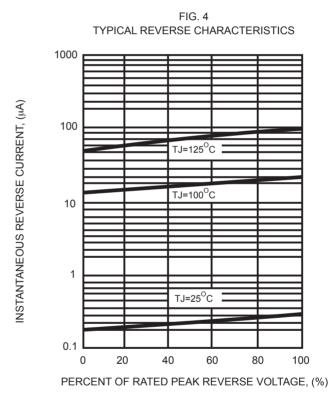
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RATING AND CHARACTERISTIC CURVES (KBPC15005(W) THRU KBPC1510(W))

FIG. 1 TYPICAL FORWARD CURRENT **DERATING CURVE** 25 AVERAGE FORWARD CURRENT, (A) Single Phase Half Wave 60Hz 20 Resistive or Inductive Load 15 10 5 0 0 25 50 75 100 125 150 AMBIENT TEMPERATURE, (°C)







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