

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

KBPC15005 THRU KBPC1510

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 15 Amperes

FEATURES

- * Metal case for Maximum Heat Dissipation
- * Surge overload ratings 240 Amperes
- * Low forward voltage drop

MECHANICAL DATA

* Case: Molded plastic with heatsink

* Epoxy: UL 94V-0 rate flame retardant

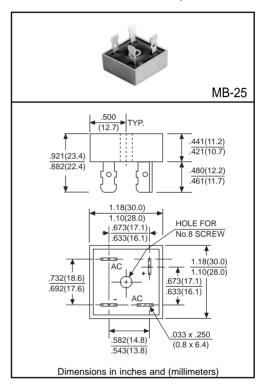
* Terminals: Plated .25"(6.35mm) Faston lugs, Solderable per

MIL-STD-202E, Method 208 guaranteed

* Polarity: As marked* Mounting position: Any* Weight: 30 grams approx.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



		SYMBOL	KBPC15005	KBPC1501	KBPC1502	KBPC1504	KBPC1506	KBPC1508	KBPC1510	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input 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 Output Current at Tc = 50°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 Forward Voltage Drop per element at 7.5A DC		VF	1.1						Volts	
Maximum DC Reverse Current at Rated	@TA = 25°C	IR	10							μAmps
DC Blocking Voltage per element	@Ta = 100°C	IK IK	500							
Operating Temperature Range		TJ	-55 to +150							٥C
Storage Temperature Range		Tstg	-55 to +150							٥C

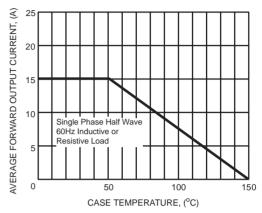
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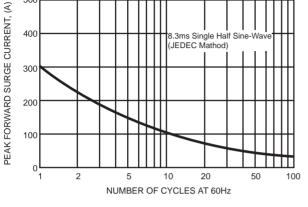
RATING AND CHARACTERISTIC CURVES (KBPC15005 THRU KBPC1510)

400 8.3ms Single Half Sine-Wave (JEDEC Mathod) 300

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE







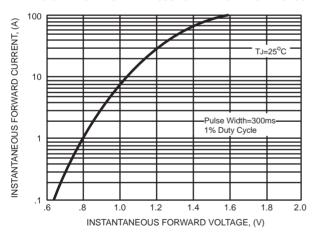
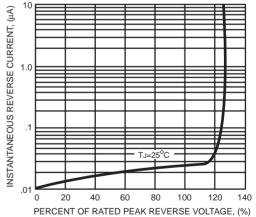


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



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