

DATA SHEET

KBPC8005 THRU KBPC810

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER VOLTAGE RANGE-50 to1000 Volts CURRENT-8.0 Amperes

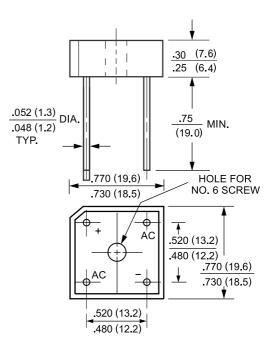
FEATURES

Surge overload rating: 125 Amperes peak Low forward voltage drop High temperature soldering : 260°C / 10 seconds at terminals Pb free product at available : 99% Sn above meet RoHS environment substance directive request

MECHANICAL DATA

Case: Molded plastic Epoxy: UL 94V-0 rate flame retardant Lead: MIL-STD-202, Method 208 guaranteed Polarity: Symbols molded or marked on body Mounting position: Any Weight: 6.9 grams

BR-10 Unitinch(mm)



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%

		SYMBOLS	KBPC 8005	KBPC 801	KBPC 802	KBPC 804	KBPC 806	KBPC 808	KBPC 810	UNIT
Maximum Repetitive 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 Output Current at TC = 50		IO	8.0							Amps
Peak Forward Surge Current 8.3ms single half sine - wave superimposed on rated load (JEDEC method)		IFSM	125						Amps	
Maximum Forward Voltage Drop per element at 4.0A DC		VF		1.1						Volts
Maximum DC Reverse Current at Rate	@TA = 25	IR	5.0							µ Amps
DC Blocking Voltage per element	@TC =100	IK	500							
I2t Rating for Fusing(t<8.3ms)		I2t	166							A2Sec
Typical Junction Capacitance (Note1)		CJ	200							pF
Typical Thermal Resistance (Note2)		R JC	21							/W
Operating Temperature Range		TJ	-55 to +150							
Storage Temperature Range		TSTG	-55 to +150							

NOTES: 1.Measured at 1 MHz and applied reverse voltage of 4.0 volts

2. Thermal Resistance from Junction to Ambient and from junction to lead mounted on P.C.B. with 0.5x0.5"(13x13mm)copper pads.

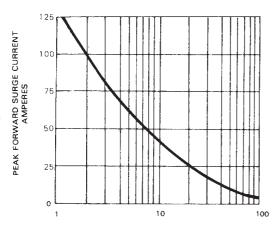
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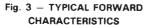
DEVICE CHARACTERISTICS

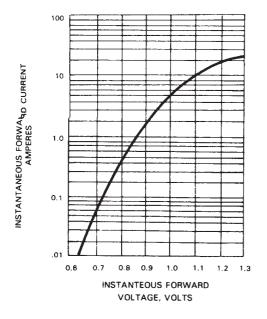
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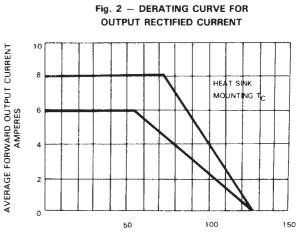
Fig. 1 - MAXIMUM FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60 Hz

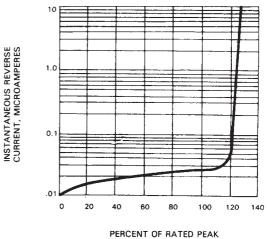






TEMPERATURE °C

Fig. 4 - TYPICAL REVERSE CHARACTERISTICS



REVERSE VOLTAGE