

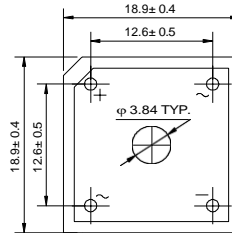
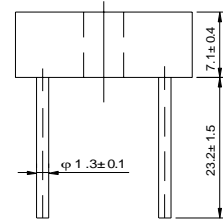
8.0A SINGLE PHASE BRIDGE RECTIFIER

FEATURES

- High surge current capability
- Wide temperature range
- Mounting: thru hole for # 6 screw mounting

MECHANICAL DATA

- Case: KBPC-8(D-72, BR-8)
- Case material: Molded plastic. UL flammability
- Classification rating: 94V-0
- Terminals: Plated leads solderable per MIL-STD-202, method 208
- Weight: 0.21oz., 6grams (approximate)



Dimensions in millimeters

KBPC-8

MAXIMUM RATINGS AND CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter	Symbol	KBPC 8005	KBPC 801	KBPC 802	KBPC 804	KBPC 806	KBPC 808	KBPC 810	Unit	
		BR805	BR81	BR82	BR84	BR86	BR88	BR810		
Max. repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V	
Max. RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V	
Max. DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V	
Max. average forward output rectified current	I _(AV)	T _C =50°C (Note 1)							8.0	A
		T _C =100°C (Note 1)							6.0	A
		T _A =50°C (Note 2)							6.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}								125.0	A
Rating for fusing (t<8.3ms)	I ² t								64	A ² S
Isolation voltage from case to leads	V _{ISO}								2500	V _{AC}
Typical Thermal Resistance (Note 1)	R _{θJA}								6.0	°C/W
Operating junction temperature range	T _J								-55 ~ +125	°C
Storage temperature range	T _{STG}								-55 ~ +150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Max.	Unit	Conditions
Maximum instantaneous forward voltage drop per bridge element	V _F	1.1	V	I _F =4.0A
Maximum DC reverse current	I _R	10	uA	T _A =25°C, V _R =V _{DC}
		1.0	mA	T _A =100°C, V _R =V _{DC}

Notes:

1. Unit mounted on 8.7" x 8.7" x 0.24" thick (22x22x0.6cm) Al. plate.
2. Unit mounted on P.C. board with 0.47" x 0.47" (12x12mm) copper pads, 0.375" (9.5mm) lead length.
3. Ratings at 25°C ambient temperature unless otherwise specified.
4. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate by 20%.

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TYPICAL CHARACTERISTICS

FIG.1 – PEAK FORWARD SURGE CURRENT

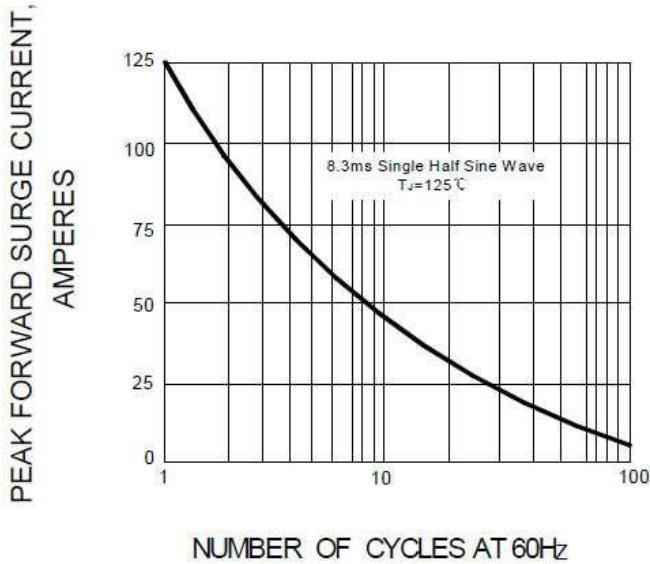


FIG.2 – FORWARD DERATING CURVE

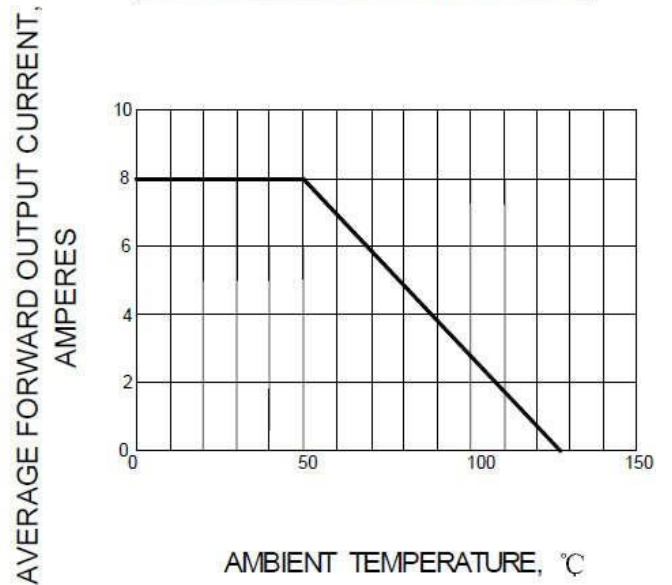


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

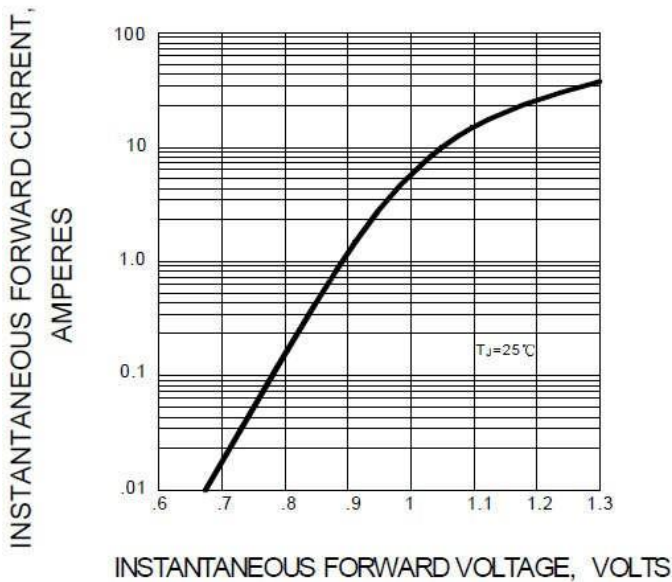


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

