



KBPC8005 THRU KBPC810

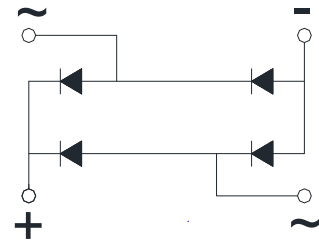
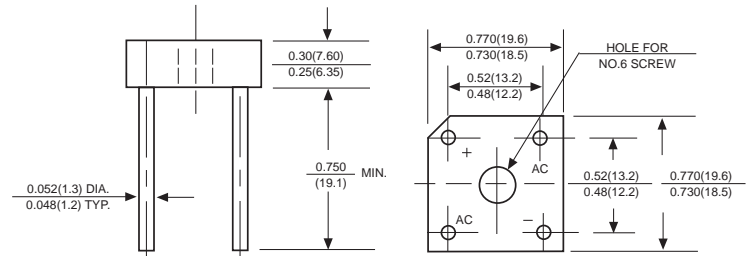
Reverse Voltage - 50 to 1000 Volts Forward Current - 8.0 Amperes

SILICON BRIDGE RECTIFIERS

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, 5 lbs. (2.3kg) tension

KBPC-8/BR-8



Dimensions in inches and (millimeters)

Mechanical Data

- Case** : JEDEC BR-8 Molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
Polarity : Polarity symbol marking on body
Mounting Position : Any
Weight : 0.20 ounce, 5.62 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 current derate by 20%.

Parameter	SYMBOLS	MDD KBPC8005	MDD KBPC801	MDD KBPC802	MDD KBPC804	MDD KBPC806	MDD KBPC808	MDD KBPC810	UNITS
Marking Code									
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	30	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward output rectified current at $T_c=50^\circ\text{C}$ (Note 1) $T_c=100^\circ\text{C}$ (Note 1) $T_A=50^\circ\text{C}$ (Note 2)	$I_{(AV)}$				8.0 6.0 6.0				A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}				125				A
Rating for Fusing ($t < 8.3\text{ms}$)	I^2t				64				A ² s
Maximum instantaneous forward voltage drop per bridge element at 4.0A	V_F				1.1				V
Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$	I_R				10 1.0				μA mA
Isolation voltage from case to leads	V_{IOS}				2500				V_{AC}
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$				6.0				$^\circ\text{C}/\text{W}$
Operating junction temperature range	T_J				-55 to +125				$^\circ\text{C}$
storage temperature range	T_{STG}				-55 to +150				$^\circ\text{C}$

NOTES:

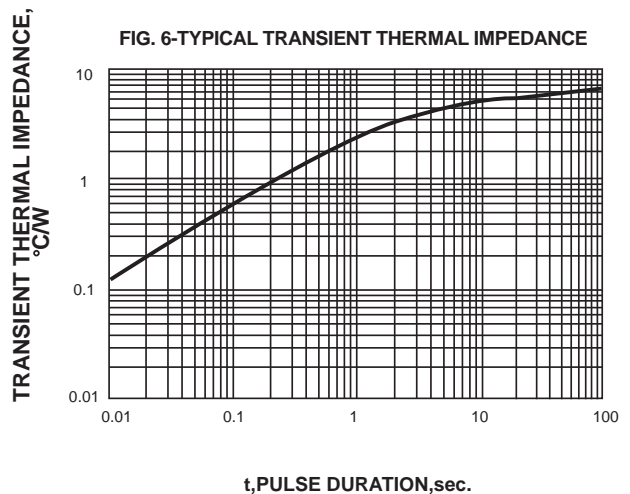
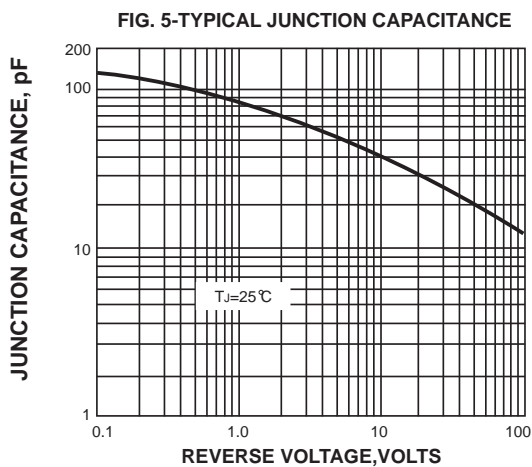
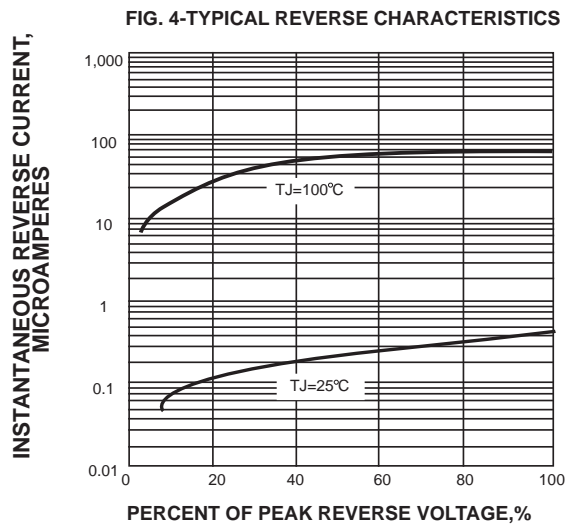
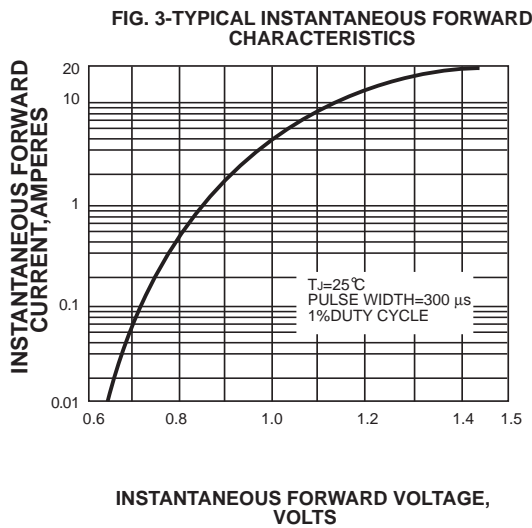
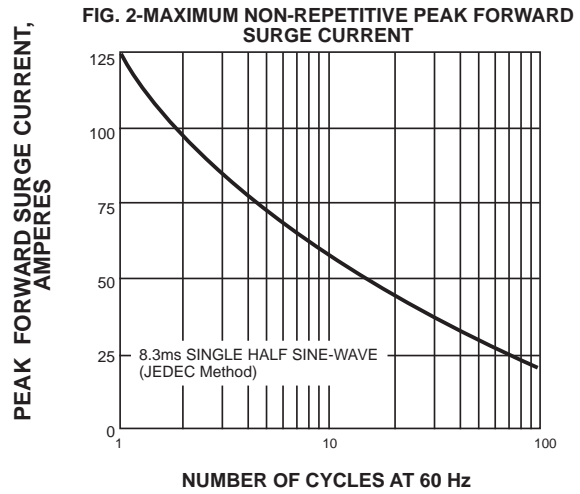
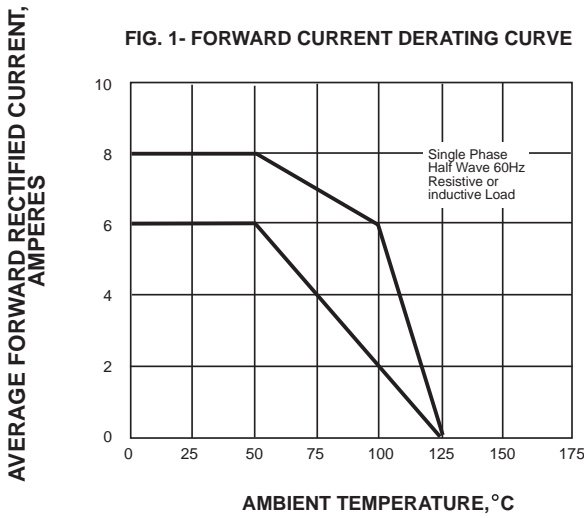
1. Unit mounted on 8.7" x 8.7" x 0.24" thick (22x22x0.6cm) Al. plate.
2. Unit mounted on P.C. board with 0.47" x 0.47" (12x12mm) copper pads, 0.375" (9.5mm) lead length.



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Ratings And Characteristic Curves



The curve above is for reference only.