



SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS
REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 8.0 Ampere

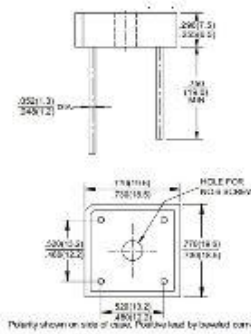
FEATURES

High forward surge current capability
 Ideal for printed circuit board
 High isolation voltage from case to leads
 High temperature soldering guaranteed:
 260°C /10 second, at 5 lbs. (2.3kg) tension.

MECHANICAL DATA

Case: Molded plastic body
 Terminal: Lead solderable per MIL-STD-202E method 208C
 Polarity: Polarity symbols molded on case
 Mounting: Thru hole for #6 screw, 5.0 in.-lbs torque max
 Weight: 0.20ounce, 5.62 grams

BR-8



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%

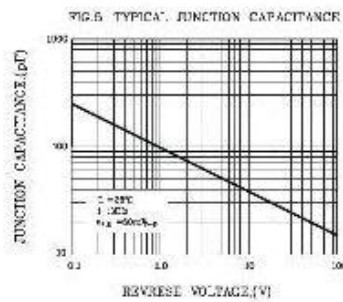
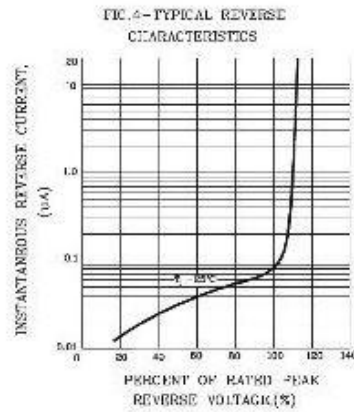
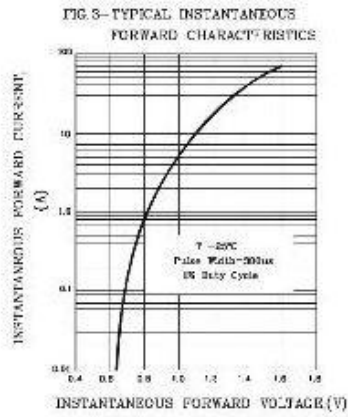
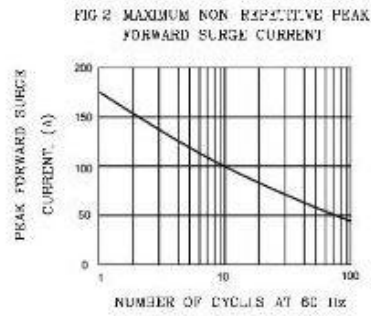
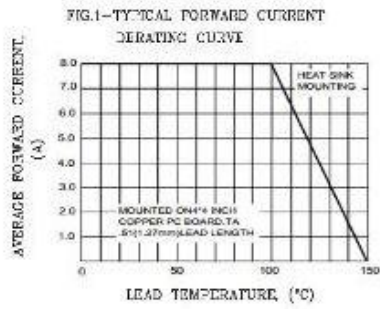
Dimensions in inches and (millimeters)

PARAMETER	SYMBOL	KBPC 8005	KBPC 801	KBPC 802	KBPC 804	KBPC 806	KBPC 808	KBPC 810	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current at TC=100 °C	$I_{(AV)}$	8.0							Amps
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	175							Amps
Rating for Fusing(t<8.3ms)	I^2t	64							A ² s
Maximum Instantaneous Forward Voltage at 4.0A	V_F	1.0							Volts
Maximum DC Reverse Current at rated DC blocking voltage	I_R	5.0							uAmps
		1.0							mAmps
Isolation Voltage from case to leads	V_{ISO}	2500							V_{AC}
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	6.0							°C/W
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

1- Unit mounted on 8.7"×8.7"×0.24" thick (22×22×0.6 cm) Al. plate.



RATINGS AND CHARACTERISTIC CURVES



Note: Specifications are subject to change without notice.