

Voltage Range - 50 to 1000 V Forward Current - 3 Amperes

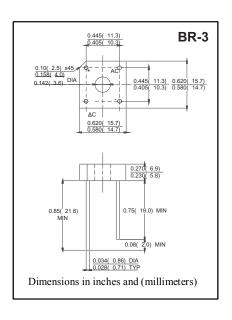
## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

#### **FEATURES**

- Glasss assivated Chip
- 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 in.-lbs torque max.
- Weight: 0.093 ounce, 2.62 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 derate current by 20%.

	SYMBOLS	KBPC1005 BR305	KBPC101 BR31	KBPC102 BR32	KBPC104 BR34	KBPC106 BR36	KBPC108 BR38	KBPC110 BR310	UNITS
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 $T_C=50^{\circ}$ C (Note 2)	$I_{(AV)}$	3.0 2.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	60							Amps
Rating for Fusing(t<8.3ms)	$I^2T$	15							$A^2S$
Maximum Instantaneous Forward Voltage at 5.0A	$V_{F}$	1.1							Volts
Maximum DC Reverse Current at rated DC blocking voltage per element $T_A=25^{\circ}C$ $T_A=100^{\circ}C$	$I_R$	5 0.5							μAmps mAmps
Isolation Voltage from case to leads	V <sub>ISO</sub>	2500							μAmps
Typical Junction Capacitance Resistance (Note 1)	$C_J$	20							°C/W
Typical Thermal Resistance per element (Note 2)	$R_{\theta JA}$	12							°C/W
Operating Temperature Range	$T_J$	-55 to +150							°C
Storage Temperature Range	$T_{STG}$	-55 to +150							$^{\circ}$

#### **NOTES:**

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts
- 2. Unit mounted on 4.0"×4.0"×0.11" thick (10.5×10.5×0.3mm) Al. plate.
- 3. Unit mounted on P.C.B at 0.375" (9.5mm) lead length with 0.5"×0.5" (12×12mm) copper pads.

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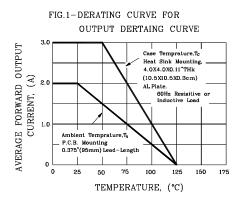


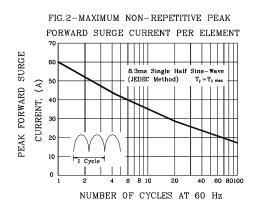
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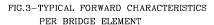
## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

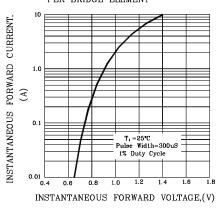
# RATING AND CHARACTERISTIC CURVES

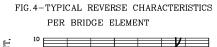
## KBPC1005 - KBPC110 BR305 - BR310

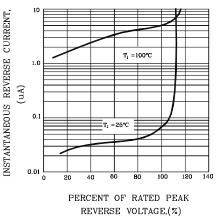


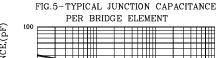


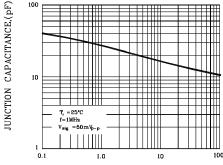












REVRESE VOLTAGE (V)

#### Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.

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