

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

BR1005 - BR1010

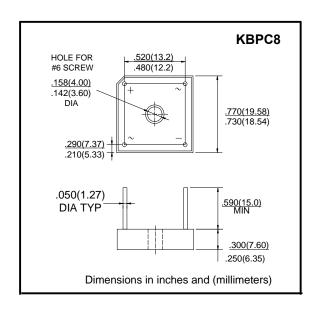
VOLTAGE RANGE - 50 to 1000 V CURRENT - 10 A

FEATURES

- Glass Passivated Chip
- This series is UL recognized
- 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:0.20ounce, 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 derate current by 20%.

	SYMBOLS	BR1005	BR101	BR102	BR104	BR106	BR108	BR1010	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 $T_{\rm C}$ =50 °C Rectified Output Current, at	$I_{(AV)}$	10.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150							Amps
Rating for Fusing(t<8.3ms)	I^2T	166							A^2S
Maximum Instantaneous Forward Voltage at 5.0A	$V_{\rm F}$	1.1							Volts
Maximum DC Reverse Current at rated T _A =25 °C	I_R				5				μAmps
DC blocking voltage $T_A=150^{\circ}C$					0.5				mAmps
Isolation Voltage from case to leads	$V_{\rm ISO}$	2500							V_{AC}
Typical Thermal Resistance (Note 1)	$R_{ heta JC}$	6.0							°C/W
Operating Temperature Range	T_J	-55 to +150							$^{\circ}$
Storage Temperature Range	T_{STG}	-55 to +150							$^{\circ}$

NOTES:

- 1. Unit mounted on 8.7"×8.7"×0.24" thick (22×22×0.6mm) Al. plate.
- 2. Unit mounted on P.C.B at 0.375" (9.5mm) lead length with 0.47"×0.47" (12×12mm) copper pads.

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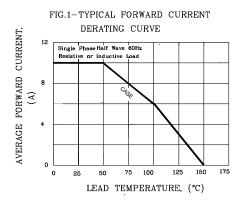


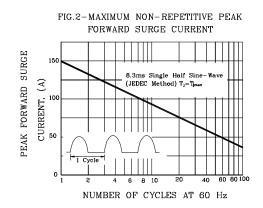
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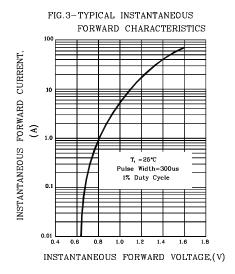
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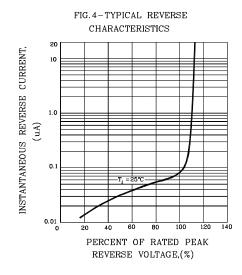
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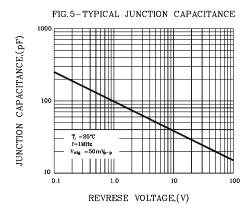
RATING AND CHRACTERISTIC CURVES BR1005 - BR1010











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