

MASTER INSTRUMENT CORPORATION

SINGLE-PHASE BRIDGE RECTIFIER KBPC3505N THRU KBPC3510N

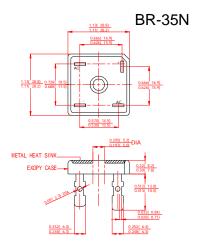
VOLTAGE RANGE CURRENT 50 to 1000 Volts 35 Amperes

FEATURES

- I Low cost
- I This series is UL recognized under component index, file number E127707
- I High forward surge current capability
- I Integrally molded heatsink provide very low thermal resistance
- I High isolation voltage from case to leads
- High temperature soldering guaranteed: 260 °C/10 second, at 5 lbs. (2.3kg) tension.

MECHANICAL DATA

- I Case: Molded plastic body
- I Terminal: Plated lead 0.25"(6.35mm)lug.I Polarity: Polarity symbols marked on case
- I Mounting: Thru hole for #10 screw, 20 in.-lbs torque max.
- I Weight: 0.55 ounce, 15.6 grams



Dimensions in inches and (millimeters)

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	KBPC 35005N	KBPC 3501N	KBPC 3502N	KBPC 3504N	KBPC 3506N	KBPC 3508N	KBPC 3510N	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 $T_C=50^{\circ}C(Note1)$		I _(AV)	35							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	400							Amps
Rating for Fusing(t<8.3ms)		I^2T	373							A^2S
Maximum Instantaneous Forward Voltage at 17.5A		$V_{\rm F}$	1.1							Volts
	$T_A=25^{\circ}\text{C}$ $T_A=100^{\circ}\text{C}$	I_R				10 1.0				μAmps mAmps
Isolation Voltage from case to leads		V _{ISO}	2500							V _{AC}
Typical Thermal Resistance (Note 1, 2)		$R_{\theta JC}$	2.0							°C/W
Operating Temperature Range		$T_{\rm J}$	-55 to +150							$^{\circ}$
Storage Temperature Range		T_{STG}	-55 to +150							$^{\circ}$ C

NOTES:

- 1. Unit mounted on 9"×3.5"×4.6" thick (23cm×9cm×11.8cm) Al. plate.
- 2. Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #10 screw.

E-mail: sales@cnmic.com Web Site: www.cnmic.com

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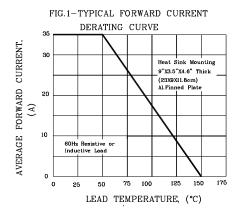


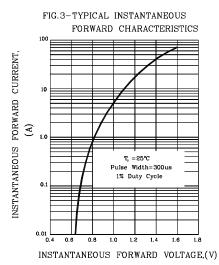
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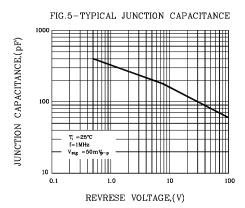
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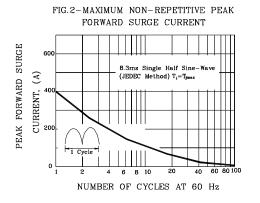
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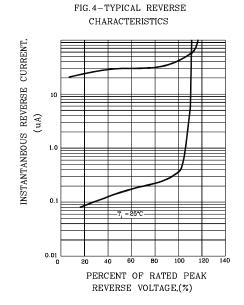
RATINGS AND CHARACTERISTIC CURVES KBPC35005N THRU KBPC3510N











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