

**SINGLE-PHASE BRIDGE RECTIFIER
KBPC15005N THRU KBPC1510N**

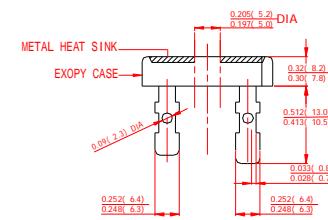
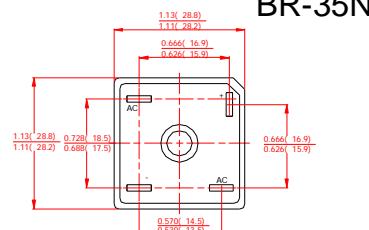
**VOLTAGE RANGE 50 to 1000 Volts
CURRENT 15 Amperes**

FEATURES

- █ Low cost
- █ This series is UL recognized under component index, file number E127707
- █ High forward surge current capability
- █ Integrally molded heatsink provide very low thermal resistance
- █ High isolation voltage from case to lugs
- █ 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



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 15005N	KBPC 1501N	KBPC 1502N	KBPC 1504N	KBPC 1506N	KBPC 1508N	KBPC 1510N	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 =55°C (Note1, 2)	I _(AV)				15				Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}				300				Amps
Rating for Fusing(t<8.3ms)	I ² T				373				A ² S
Maximum Instantaneous Forward Voltage at 7.5A	V _F				1.1				Volts
Maximum DC Reverse Current at rated DC blocking voltage	I _R	T _A =25°C			10				µAmps
		T _A =150°C			1.0				mAmps
Isolation Voltage from case to leads	V _{ISO}				2500				V _{AC}
Typical Thermal Resistance (Note 1)	R _{θJC}				2.0				°C/W
Operating Temperature Range	T _J				-55 to +150				°C
Storage Temperature Range	T _{STG}				-55 to +150				°C

NOTES:

1. Unit mounted on 5"×4"×3" thick (12.8mm×10.2mm×7.3mm) 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.

RATINGS AND CHARACTERISTIC CURVES KBPC15005N THRU KBPC1510N

