

MASTER INSTRUMENT CORPORATION

SINGLE-PHASE BRIDGE RECTIFIER KBPC2505NW THRU KBPC2510NW

VOLTAGE RANGE CURRENT 50 to 1000 Volts 25 Amperes

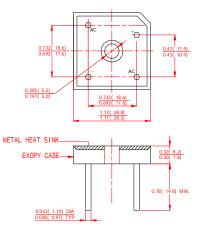
FEATURES

- 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 lugs
- I High temperature soldering guaranteed: 260 °C/10 second, at 5 lbs. (2.3kg) tension.

MECHANICAL DATA

- I Case: Molded plastic body
- I Terminal: Lead solderable per MIL-STD-202E method 208C.
- I Polarity: Polarity symbols molded on case
- I Mounting: Thru hole for #6 screw, 5.0 in.-lbs torque max.
- I Weight: 0.47 ounce, 13.4 grams

BR-35WN



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 25005NW	KBPC 2501NW	KBPC 2502NW	KBPC 2504NW	KBPC 2506NW	KBPC 2508NW	KBPC 2510NW	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°C(Note1, 2)		I _(AV)	25							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^2T	373							A^2S
Maximum Instantaneous Forward Voltage at 12.5A		$V_{\rm F}$	1.1							Volts
Maximum DC Reverse Current at rated		I_R				10				μAmps
DC blocking voltage	T _A =150°C	.,				1.0				mAmps
Isolation Voltage from case to leads		$V_{\rm ISO}$	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							°C

NOTES:

- 1. Unit mounted on 5"×6"×4.9" thick (12.8mm×15.2mm×12.4mm) 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.

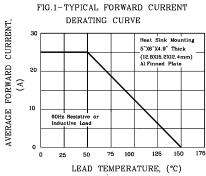
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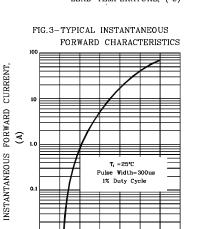


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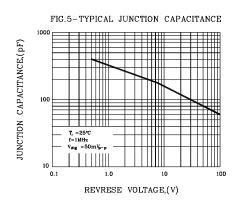
RATINGS AND CHARACTERISTIC CURVES KBPC2505NW THRU KBPC2510NW

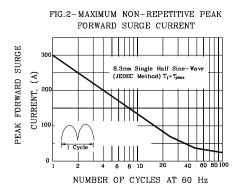


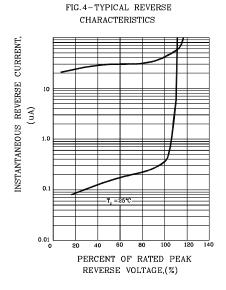


1.0 1.2 1.4

INSTANTANEOUS FORWARD VOLTAGE, (V)







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