

KBPC35005N

THRU

KBPC3510N

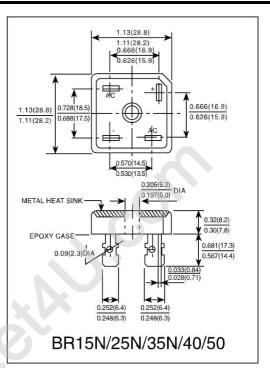
VOLTAGE RANGE CURRENT 50 to 1000 Volts 35 Ampere

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, Suffix "N" for thinner type.
- Terminal: Plated 0.25" (6.35mm) lug.
- Polarity: Polarity symbols marked on case.
- Mounting: Thru hole for #10 screw, 20 in,- lbs. Torqute Max.
- Weight: 0.55 ounce, 15.6 gram(KBPC35N)



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	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	TUNIT
		35005N	3501N	3502N	3504N	3506N	3508N	3510N	
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 1)	$I_{(AV)}$	35							Amps
Peak Forward Surge Current									
8.3ms single half sine - wave superimposed on	I_{FSM} 400								Amps
rated load (JEDEC method)									
Rating for Fusing (t<8.3ms)	I^2t	664							A^2s
Maximum Instantaneous Forward Voltage Drop	V_{F}	1.1							Volts
per bridge element at 17.5A	V F								Volts
Maximum DC Reverse Current at rated $T_A = 25^{\circ}C$	I_R	10							$\mu \mathbf{A}$
DC blocking voltage per element $T_A = 100^{\circ}C$	1R	1.0							mA
Isolation Voltage from case to lugs.	V_{ISO}	2500							V_{AC}
Typical Thermal Resistance (Note 1,2)	$R_{ heta JC}$	2.0							°C/W
Operating Temperature Range	T_{J}	(-65 to +150)							°C
Storage Temperature Range	T_{STG}	(-65 to +150)						·	

^{1.} Unit mounted on 9" X 3.5" X 4.6" (23cm X 9cm X 11.8cm)Al. finned Plate.

transfer efficiency with # 10 screw.

 $^{2. \} Bolt \ down \ on \ heat-sink \ with \ silicon \ thermal \ compound \ between \ bridge \ and \ mounting \ sutfae \ for \ maximum \ heat-sink \ with \ silicon \ thermal \ compound \ between \ bridge \ and \ mounting \ sutfae \ for \ maximum \ heat-sink \ with \ silicon \ thermal \ compound \ between \ bridge \ and \ mounting \ sutfae \ for \ maximum \ heat-sink \ with \ silicon \ thermal \ compound \ between \ bridge \ and \ mounting \ sutfae \ for \ maximum \ heat-sink \ with \ silicon \ thermal \ compound \ between \ bridge \ and \ mounting \ sutfae \ for \ maximum \ heat-sink \ with \ silicon \ thermal \ compound \ between \ bridge \ and \ mounting \ sutfae \ for \ maximum \ heat-sink \ with \ silicon \ thermal \ silicon \ silicon \ thermal \ silicon \ thermal \ silicon \ thermal \ silicon \ thermal \ silic$

RATINGS AND CHARACTERISTIC CURVES KBPC3505N THRU KBPC3510N

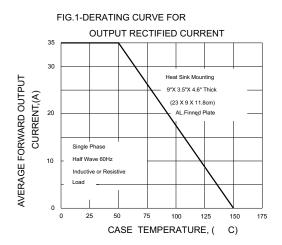
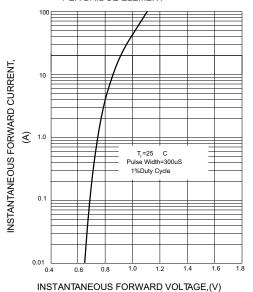
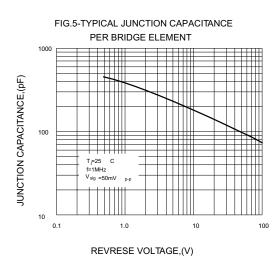


FIG.3-TYPICAL FORWARD CHARACTERISTICS
PER BRIDGE ELEMENT





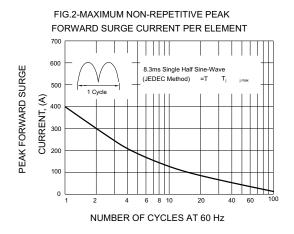


FIG.4-TYPICAL REVERSE CHARACTERISTICS
PER BRIDGE ELEMENT

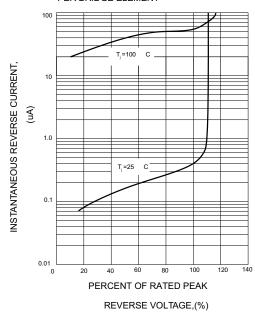


FIG.6-MAXIMUM POWER DISSIPATION

