

# Lagertyp KBPC2506

## FEATURES

- Electrically isolated metal case for maximum heat dissipation
- Surge overload ratings to 400 amperes
- Terminals either universal .25" FASTON or wire leads
- Locating lug (optional)
- For extra creepage distance insulating coating is available
- These bridges are on the U/L Recognized Products List for currents of 10, 25 and 35 amperes

## MECHANICAL DATA

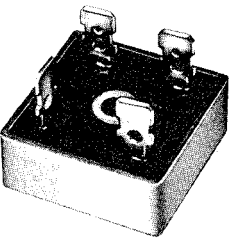
Case: Metal, electrically isolated. For extra creepage cover see Fig. 10. Suffix letter "D" added to indicate insulating coating.

Terminals: Either plated .25" FASTON or plated copper leads .040" diameter. Suffix letter "W" added to indicate leads.

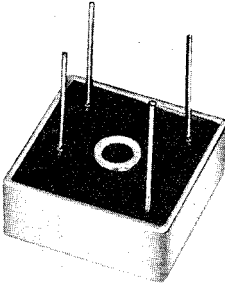
Weight: 1 ounce, 30 grams

Mounting position: Any

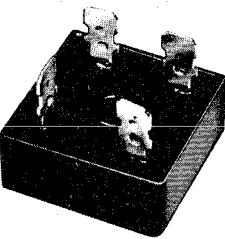
Positioning lug (optional): .062" diameter, .082" high. Indicated by suffix letter "L".



KBPC



KBPC-W



KBPC-D

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified; resistive or inductive load at 60Hz. For capacitive load, derate current b- 20%.

	-005	-02	-04	-06	-08	-10	Units
Maximum Recurrent Peak Reverse Voltage	50	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current at T <sub>C</sub> = 55°C	KBPC10			10			A
	KBPC12			12			A
	KBPC15			15			A
	KBPC25			25			A
	KBPC35			35			A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	KBPC10		200				A
	KBPC12		300				A
	KBPC15		300				A
	KBPC25		300				A
	KBPC35		400				A
Maximum Forward Voltage per Bridge Element at Specified Current	KBPC10	5A					V
	KBPC12	6.0A					
	KBPC15	7.5A					
	KBPC25	12.5A	1.2				
	KBPC35	17.5A					
Maximum Reverse DC Current at Rated DC Blocking Voltage			10				μA
Operating Temperature Range T <sub>J</sub>			-65 to +175				°C
Storage Temperature Range T <sub>A</sub>							

FIG. 1

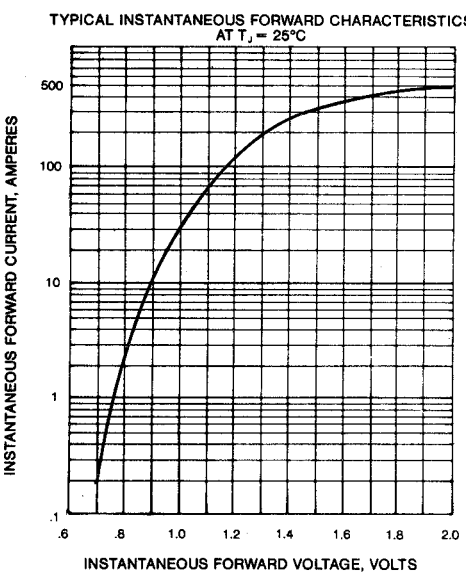


FIG. 2

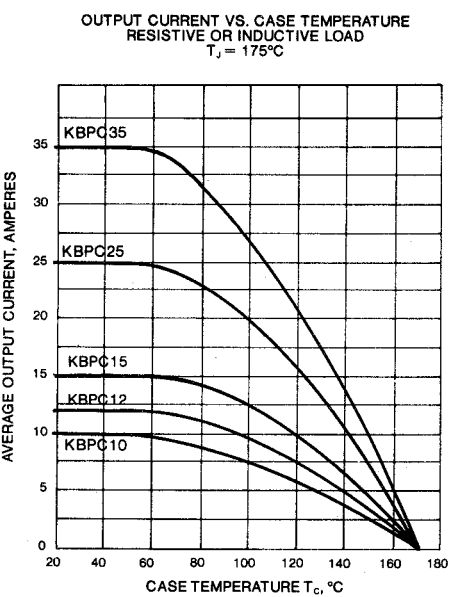


FIG. 3

OUTPUT CURRENT VS. AMBIENT TEMPERATURE  
RESISTIVE OR INDUCTIVE LOAD  
BRIDGE MOUNTED ON A 6" x 8" ALUMINUM PLATE .25" THICK

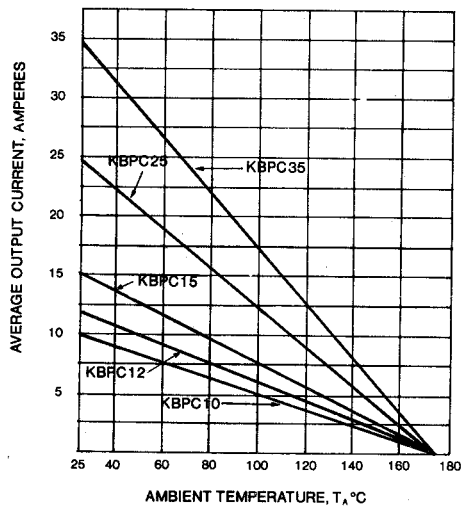


FIG. 4

POWER DISSIPATION VS. AVERAGE OUTPUT CURRENT  
RESISTIVE OR INDUCTIVE LOAD, Tj = 175°C

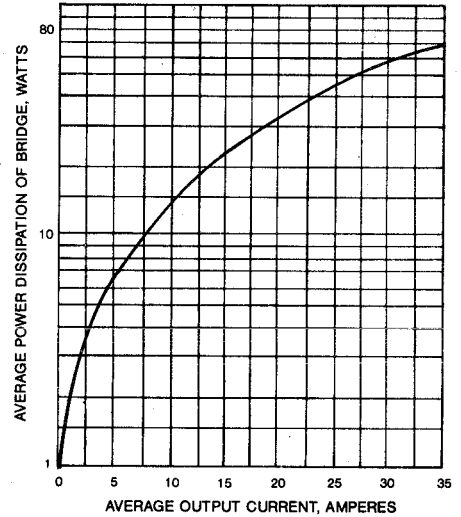


FIG. 5

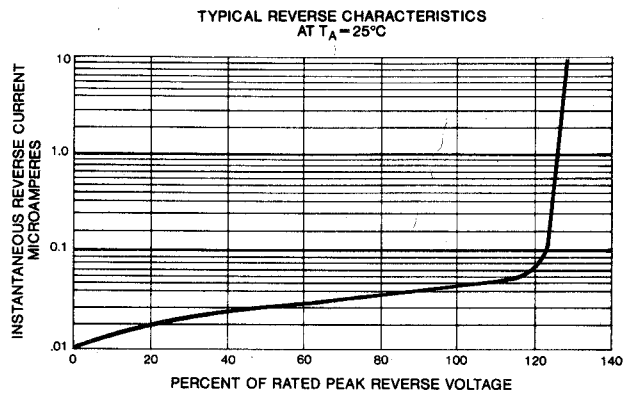


FIG. 6

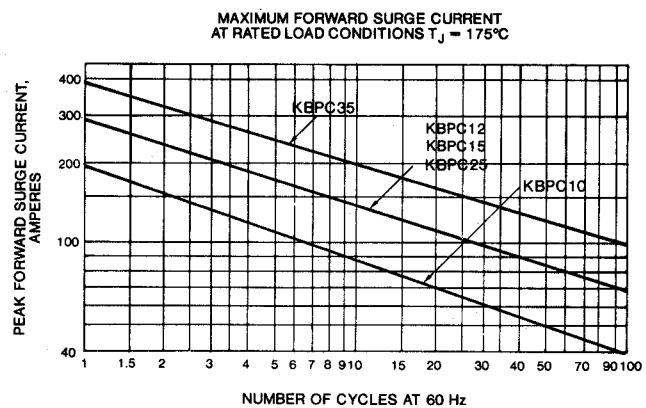


FIG. 7

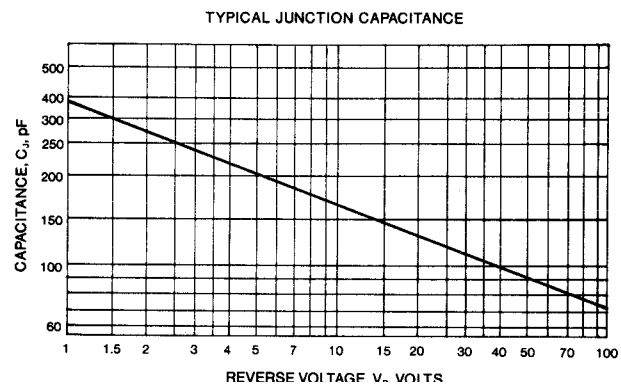


FIG. 8  
KBPC

