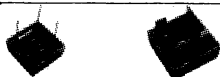




KBPC15, 25, 35, 50 SERIES

HIGH CURRENT 15, 25, 35, 50 AMPS. SINGLE PHASE BRIDGE RECTIFIERS



FEATURES

- * Metal case with an electrically isolated mylar
- * Rating to 1,000V PRV
- * High efficiency
- * Mounting: thru hole for # 10 screw
- * High temperature soldering guaranteed: 260°C/10 seconds at 5 lbs. (2.3 kg) tension
- * Terminals solderables per MIL - STD - 202. method 208
- * Isolated voltage from case to lead over 2000 volts

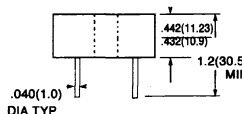
VOLTAGE RANGE

50 to 1000 Volts

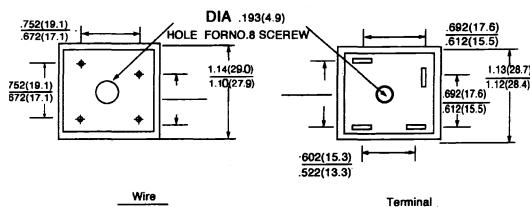
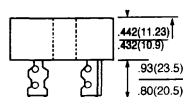
CURRENT

15.0/25.0/35.0/50.0 Amperes

KBPC-W



KBPC



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

TYPE NUMBER		SYMBOLS	-00	-01	-02	-04	-06	-08	-10	UNITS
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		V_{RMS}	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current @ $T_C = 55^\circ\text{C}$ (See Fig. 1)	KBPC15 KBPC25 KBPC35 KBPC50	$I_F(AV)$				15.0 25.0 35.0 50.0				A
Peak Forward Surge Current single sine-wave superimposed on rated load (JEDEC method)	KBPC15 KBPC25 KBPC35 - KBPC50	I_{FSM}				200 300 400				A
Maximum Instantaneous Forward Voltage Drop per Element at Specified Current	KBPC15 7.5A KBPC25 12.5A KBPC35 17.5A KBPC50 25.0A	V_F				1.10				V
Maximum Reverse DC Current at Rated D.C Blocking Voltage per Element		I_R				10.0				μA
Typical Thermal Resistance $<1>$		$R_{\theta JC}$				2.0				$^\circ\text{C/W}$
Operating and Storage Temperature Range		T_J/T_{STG}		-50 to +125	/	-50 to +150				$^\circ\text{C}$

Notes: 1. Thermal Resistance from Junction to Case Per leg.

2. Bolt down on heatsink with silicone thermal compound between bridge and mounting surface for maximum heat transfer with # 10 screw

3. Suffix "W" - Wire Lead Structure.

RATINGS AND CHARACTERISTIC CURVES (KBPC1500 THRU KBPC5010)

FIG.1 – TYPICAL FORWARD CURRENT DERATING CURVE

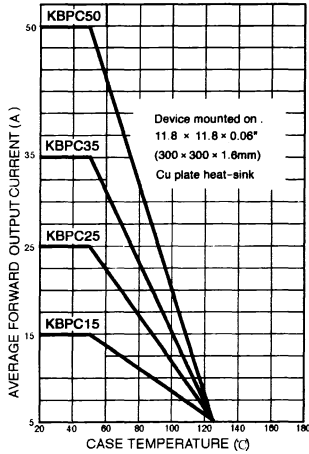


FIG.2 – MAXIMUM NON – REPETITIVE SURGE CURRENT – PER ELEMENT

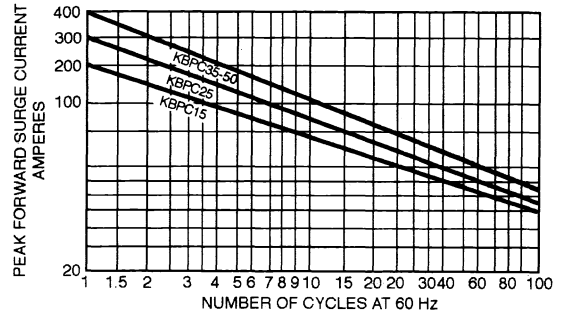


FIG.4 – TYPICAL FORWARD CHARACTERISTICS – PER ELEMENT

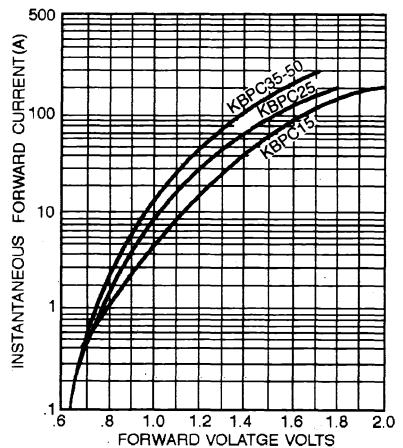


FIG.3 – TYPICAL REVERSE CHARACTERISTICS PER ELEMENT

