

KBPC6005 THRU KBPC610

SINGLE-PHASE SILICON BRIDGE Reverse Voltage - 50 to 1000 Volts Forward Current - 6.0 Amperes

Features

• Surge overload rating - 125 amperes peak

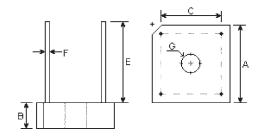
Low forward voltage drop

• Small size; simple installation

Silver plated copper leads

Mounting position: Any

BR6



DIMENSIONS										
DIM	inches		m	Note						
	Min.	Max.	Min.	Max.	Note					
Α	0.580	0.620	14.69	15.71						
В	0.230	0.270	5.84	6.86						
С	0.405	0.445	10.29	11.31						
E	0.750	-	19.1	-						
F	0.038	0.042	0.97	1.07	ф					
G	Н									

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 6005	KBPC 601	KBPC 602	KBPC 604	KBPC 606	KBPC 608	KBPC 610	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS bridge input voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
$\begin{array}{lll} \mbox{Maximum average forward} & \mbox{T}_c = 100^{\circ}\mbox{C} & * \\ \mbox{rectified output current at} & \mbox{T}_c^{=} = 50^{\circ}\mbox{C} & ** \\ \end{array}$	I _(AV)	6.0 6.0						Amps	
Peak forward surge current, 8.3mS single half sine-wave superimposed on rated load	I _{FSM}	125.0						Amps	
Maximum forward Voltage drop per element at 3.0A peak	V _F	1.0						Volt	
$\begin{array}{ll} \text{Maximum DC reverse current at rated} & \text{T}_{\Lambda} = 25^{\circ}\text{C} \\ \text{DC blocking voltage per element} & \text{T}_{\Lambda}^{\Lambda} = 100^{\circ}\text{C} \end{array}$	I _R	10.0 1.0							uA mA
Operating temperature range	T _J	-55 to +125						°C	
Storage temperature range	T _{stg}	-55 to +150						°C	

Notes:

- * Unit mounted on metal chassis
- ** Unit mounted on P.C. board

RATINGS AND CHARACTERISTIC CURVES

Fig. 1 — DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

AMERIES

PC MOUNTING TA

PC MOUNTING TA

100

150

TEMPERATURE °C

Fig. 3 - MAXIMUM FORWARD SURGE CURRENT

