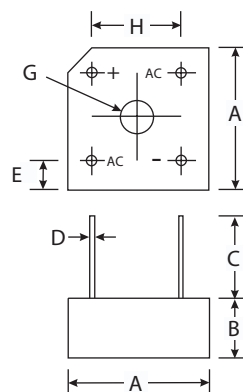


KBPC8005 THRU KBPC810

CURRENT 8.0 Amperes
VOLTAGE 50 to 1000 Volts

Features

- Diffused Junction
- High Current Capability
- Surge Overload Rating to 125A Peak
- High Case Dielectric Strength of 1500V
- Ideal for Printed Circuit Board Applications
- Plastic Material - UL Flammability Classification 94V-0



KBPC-8		
Dim	Min	Max
A	18.54	19.56
B	6.35	7.60
C	22.20	—
D	1.27 $\varnothing$ Typical	
E	5.33	7.37
G	3.60 $\varnothing$	4.00 $\varnothing$
H	12.70 Typical	
J	2.38 X 45° Typical	
All Dimensions in mm		

Mechanical Data

- Case : Molded Plastic
- Terminals : Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity : Marked on Body
- Mounting : Through Hole for #6 Screw
- Mounting Torque : 5.0 Inch-pounds Maximum
- Weight : 5.4 grams (approx.)
- Marking : Type Number

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 by 20%)

	Symbols	KBPC 8005	KBPC 801	KBPC 802	KBPC 804	KBPC 806	KBPC 808	KBPC 810	Units
Peak Repetitive Reverse voltage	V_{RMM}	50	100	200	400	600	800	1000	Volts
Working Peak Reverse voltage	V_{RWM}								
DC Blocking voltage	V_R								
RMS Reverse voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	Volts
Average Rectified Output Current	I_o	8.0							Amps
		6.0							
Non-Repetitive Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	125							Amps
Forward voltage (per element) @ $I_F=4.0$ A	V_{FM}	1.1							Volts
Peak Reverse Current at Rated DC Blocking voltage (per element) @ $T_C=25^\circ\text{C}$	I_R	10							μ A
		1.0							mA
I^2t Rating for Fusing ($t<8.3\text{ms}$) (Note 3)	I^2t	64							A^2s
Typical Junction Capacitance (Note 4)	C_j	100							pF
Typical Thermal Resistance, Junction to Case (per element)	$R_{\theta JA}$	9.4							$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	T_j T_{STG}	-65 to +125							$^\circ\text{C}$

Notes:

- (1) Mounted on metal chassis.
- (2) Mounted on PC board FR-4 material.
- (3) Non-repetitive, for $t > 1.0\text{ms}$ and $< 8.3\text{ms}$.
- (4) Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.



RATINGS AND CHARACTERISTIC CURVES KBPC8005 THRU KBPC810

