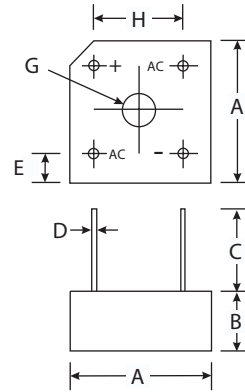


Features

- 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 Working Peak Reverse voltage DC Blocking voltage	V_{RMM} V_{RWM} V_R	50	100	200	400	600	800	1000	Volts
RMS Reverse voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	Volts
Average Rectified Output Current	I_o	8.0 6.0							Amps
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)	I_R	10 1.0							μ A mA
I^2t Rating for Fusing ($t < 8.3ms$) (Note 3)	I^2t	64							A ² s
Typical Junction Capacitance (Note 4)	C_j	100							pF
Typical Thermal Resistance, Junction to Case (per element)	$R\theta_{JA}$	9.4							°C/W
Operating and Storage Temperature Range	T_j T_{STG}	-65 to +125							°C

Notes:

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



RATINGS AND CHARACTERISTIC CURVES KBPC8005 THRU KBPC810

