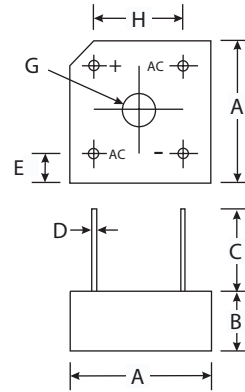


## KBPC8005 THRU KBPC810

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 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 (Note 1) (Note 2)	$I_o$	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) @ $T_C=25^\circ C$	$I_R$	10							$\mu A$
@ $T_C=100^\circ C$		1.0							mA
$I^2t$ Rating for Fusing ( $t < 8.3ms$ ) (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							$^\circ C/W$
Operating and Storage Temperature Range	$T_j$ $T_{STG}$	-65 to +125							$^\circ C$

#### 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

