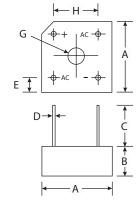


## KBPC6005 THRU KBPC610

CURRENT 6.0 Amperes VOLTAGE 50 to 1000 Volts

#### **Features**

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



KBPC-3								
Dim	Min	Max						
Α	14.73	15.75						
В	5.84	6.86						
C	19.00	_						
D	0.76 Ø Typical							
Е	1.70	3.20						
G	Hole for #6 screw							
d	3.60	4.00						
Н	10.30	11.30						
All Dir	mensions	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: 3.8 grams (approx.)Marking: Type Number

## Maximum Ratings And Electrical Characteristics

(Ratings at  $25^{\circ}$ C ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive load. For capacitive load, derate by 20%)

		Symbols	KBPC 6005	KBPC 601	KBPC 602	KBPC 604	KBPC 606	KBPC 608	KBPC 610	Units
Peak Repetitive Reverse voltage Working Peak Reverse voltage DC Blocking voltage		Vrmm Vrwm Vr	50	100	200	400	600	800	1000	Volts
RMS Reverse voltage		VR(RMS)	35	70	140	280	420	560	700	Volts
Average Rectified (Note 1) Output Current (Note 2)	@ Tc=50°C @ Tc=50°C	lo	8.0 6.0					Amps		
Non-Repetitive Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)		IFSM	125						Amps	
Forward voltage (per element)	@ IF=3.0 A	VFM	1.1						Volts	
Peak Reverse Current at Rated DC Blocking voltage (per element)	@ Tc=25℃	lr.	10						μΑ	
	@ Tc=100℃	IK	1.0						mA	
I <sup>2</sup> t Rating for Fusing (t<8.3ms) (Note 3)		l <sup>2</sup> t	64						A <sup>2</sup> s	
Typical Junction Capacitance (Note 4)		Cj	55							pF
Typical Thermal Resistance, Junction to Case (per element)		R <i>⊕</i> JA	12.5						°C/W	
Operating and Storage Temperature Range		Tj Tstg	-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 KBPC6005 THRU KBPC610

