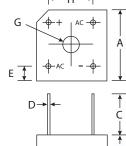


KBPC3005 THRU KBPC310

CURRENT 3.0 Amperes VOLTAGE 50 to 1000 Volts

Features

- · High Current Capability
- · Surge Overload Rating to 50A Peak
- · High Case Dielectric Strength of 1500V
- · Ideal for Printed Circuit Board Application
- · Plastic Material UL Flammability Classification 94V-0



Mechanical Data

· Case: Molded Plastic

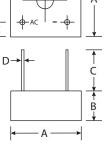
· Terminals : Plated Leads Solderable per MIL-STD-202, Method 208

· 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



KBPC-3								
Dim	Min	Max						
Α	14.73	15.75						
В	5.84	6.86						
С	19.00	_						
D	0.76 Ø Typical							
Е	1.70	3.20						
G	Hole for #6 screw							
G	3.60	4.00						
Н	10.30	11.30						
All Dir	mensions	in mm						

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 3005	KBPC 301	KBPC 302	KBPC 304	KBPC 306	KBPC 308	KBPC 310	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) @ Tc=50°C Output Current (Note 2) @ Tc=50°C	→ lo	3.0 2.0						Amps	
Non-Repetitive Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	lfsm	50						Amps	
Forward voltage (per element) @ IF=1.5 A	VFM	1.2				Volts			
Peak Reverse Current at Rated DC Blocking voltage (per element) @ Tc=100	− IR	10 1.0						μ A mA	
I ² t Rating for Fusing (t<8.3ms) (Note 3)	l ² t	10						A ² s	
Typical Junction Capacitance (Note 4)	Cj	55						pF	
Typical Thermal Resistance, Junction to Case (per element)	R <i>⊕</i> JA	25						°C/W	
Operating and Storage Temperature Range	Tj Tstg	-65 to +125						င	

- (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 KBPC3005 THRU KBPC310

