

KBPC600 – KBPC610

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6.0A BRIDGE RECTIFIER

Dim

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В

KBPC-6

Max

15.75

6.90

2.72

4.00

11.30

Min

14.73

5.80

19.00

1.70

3.60

10.30

All Dimensions in mm

1.00 Ø Typical

Hole for #6 screw

Features

- Diffused Junction
- High Current Capability
- High Case Dielectric Strength
- High Surge Current Capability
- Ideal for Printed Circuit Board Application
- Plastic Material has Underwriters Laboratory Flammability Classification 94V-O
- UL Recognized File # E157705

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Marked on Body
- Weight: 3.8 grams (approx.)
- Mounting Position: Through Hole for #6 Screw
- Mounting Torque: 5.0 Inch-pounds Maximum
- Marking: Type Number

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	KBPC 600	KPBC 601	KBPC 602	KBPC 604	KBPC 606	KBPC 608	KBPC 610	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) $@T_c = 50^{\circ}C$	ю	6.0							А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	125							A
Forward Voltage (per element) $@I_F = 3.0A$	Vfm	1.1						V	
Peak Reverse Current $@T_c = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_c = 100^{\circ}C$	IR	10 1.0						μA mA	
I ² t Rating for Fusing (t<8.3ms) (Note 2)	l ² t	64					A ² s		
Typical Junction Capacitance (Note 3)	Cj	55					pF		
Typical Thermal Resistance (Note 4)	R	12.5						K/W	
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to +125						°C	

Note: 1. Mounted on metal chassis.

2. Non-repetitive, for t > 1ms and < 8.3ms.

3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

4. Thermal resistance junction to case per element.

