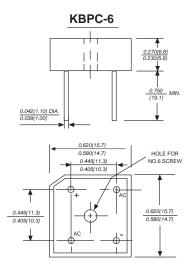
# KBPC6005 THRU KBPC610





## SILICON BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 6.0 Ampere



Dimensions in inches and (millimeters)

**FEATURES** 

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Ideal for printed circuit boards
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
- 260°C/10 seconds at 5 lbs. (2.3kg) tension

  Available in both OJ open junction and GPP glass passivated chip junction
- This series is UL recognized component

### **MECHANICAL DATA**

Case: JEDEC KBPC-6 molded plastic

Terminals: Plated leads solderable per MIL-STD-750,

Method 2026

Polarity: Polarity symbols marked on case

Mounting: Thru hole for #6 screw Weight: 0.13 ounce, 3.66 grams

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave 60Hz, resistive or inductive load, for current capacitive load, derate by 20%.

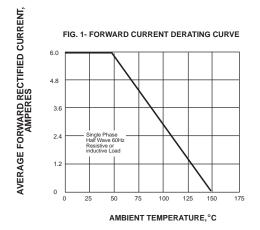
	SYMBOLS	KBPC 6005	KBPC 601	KBPC 602	KBPC 604	KBPC 606	KBPC 608	KBPC 610	UNITS
rimum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
imum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
rimum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
imum average forward output rectified		6.0							Amps
ent at Tc=55°C (Note 1,2)	I(AV)								
k forward surge current									
ns single half sine-wave superimposed on	Ifsm 125.0							Amps	
d load (JEDEC Method)									
ng for Fusing(t<8.3ms)	l <sup>2</sup> t	64							A <sup>2</sup> s
rimum instantaneous forward voltage dorp	VF	1.1							Volts
bridge element at 7.5A									
timum DC reverse current Ta=25°C	I_	10							μΑ
ated DC blocking voltage Ta=100°C	IR	1							mA
ation voltage from case to leads	Viso	2500							Vac
rating junction temperature range	Тı	-65 to +150							°C
age temperature range	Тѕтс	-65 to +150							°C
ns single half sine-wave superimposed on d load (JEDEC Method) ng for Fusing(t<8.3ms) cimum instantaneous forward voltage dorp bridge element at 7.5A cimum DC reverse current TA=25°C ated DC blocking voltage TA=100°C ation voltage from case to leads crating junction temperature range	I <sup>2</sup> t  VF  IR  VISO  TJ				64 1.1 10 1 2500 65 to +1				

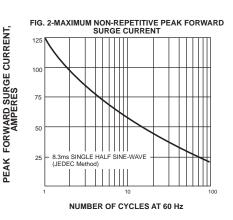
Rev.: 1-Dec-2015

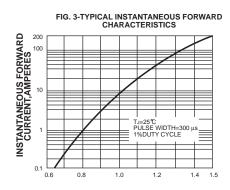
1.Unit mounted on 5" x 4" x3" thick(12.8cmx10.2cmx7.3cm)Al.plate.

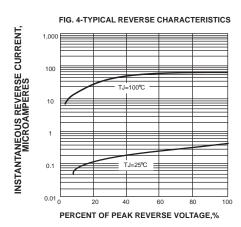
2.Bolt dowm on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #6 screw.

#### RATINGS AND CHARACTERISTIC CURVES KBPC6005 THRU KBPC610

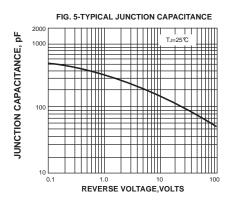




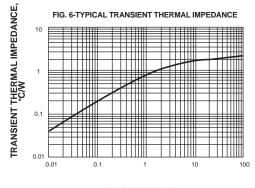








Rev.: 1-Dec-2015



t,PULSE DURATION,sec.