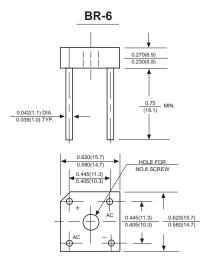


KBPC6005 THRU KBPC610

SILICON BRIDGE RECTIFIERS

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



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,5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: Molded plastic body

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

Method 2026

Polarity: Polarity symbols marked on case

Mounting: Thru hole for #6 serew, 5 in.-lbs. torque max.

Weight: 0.13 ounce, 3.66 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

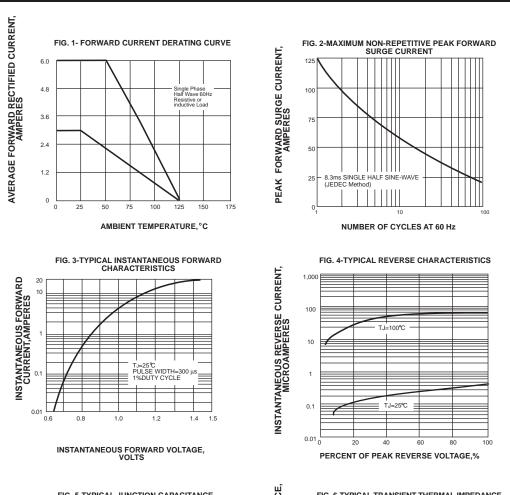
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

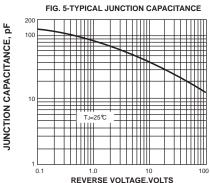
		'							
MDD Catalog Number	SYMBOLS	KBPC 6005	KBPC 601	KBPC 602	KBPC 604	KBPC 606	KBPC 608	KBPC 610	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward Ta=50℃(Note 1)	1	6.0 3.0							Amps
output rectified current at Ta=25°C(Note 2)	I(AV)								
Peak forward surge current									
8.3ms single half sine-wave superimposed on	I _{FSM} 125						Amps		
rated load (JEDEC Method)									
Rating for Fusing(t<8.3ms)	l ² t				64				A²s
Maximum instantaneous forward voltage drop	VF	1.0							Volts
per birdge element at 3.0A	VF								
Maximum DC reverse current Ta=25°C	l _R	10							μΑ
at rated DC blocking voltage Ta=100°C	IR I	1.0							mA
Typical Junction Capacitance (Note 1)	Сл	60							pF
Typical Thermal Resistance (Note 2)	RθJA	8.0							°C/W
Operating junction temperature range	TJ	-55 to +125							°C
storage temperature range	Тѕтс	-55 to +150							°C

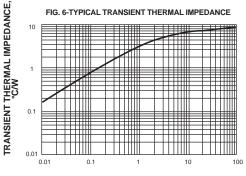
NOTES:

- 1.Unit mounted on 6.0" x 5.5" x0.11" thick(15x14x0.3cm)Al.plate.
- 2.Unit mounted on P.C. board with 0.47" x 0.47" (12x12mm) copper pads,0.375" (9.5mm) lead length.

RATINGS AND CHARACTERISTIC CURVES KBPC6005 THRU KBPC610







t,PULSE DURATION,sec.

The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!