

KBPC6005 THRU KBPC610

SINGLE PHASE SILICON BRIDGE RECTIFIER

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

FEATURES

Diffused Junction

• Surge overload rating: 125A peak

MECHANICAL DATA

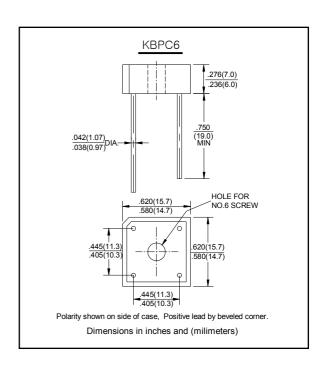
• Case: UL-94 Class V-0 recognized Flame Retardant Epoxy

Terminals: Plated leads solderable per

MIL-STD 202, method 208

Mounting Position: AnyMarking: Type Number





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%.

Characteristic		Symbol	KBPC 6005	KBPC 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°C		lo	6.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	125							А
Forward Voltage per leg	@I _F = 3.0A	VFM				1.1				V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$		lR	5.0 500						μА	
I ² t Rating for Fusing (t<8.3ms) (Note 2)		l ² t	64							A ² s
Typical Junction Capacitance (Note 3)		Cj	80							pF
Typical Thermal Resistance per leg (Note 1)		R⊕JC	9.5							°C/W
Operating and Storage Temperature Range		Tj, Tstg	-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.



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RATINGS AND CHARACTERISTIC CURVES

