

KBPC3005 THRU KBPC310

SINGLE PHASE SILICON BRIDGE RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 3.0 Ampere

FEATURES

Diffused Junction

• Surge overload rating: 50A peak

MECHANICAL DATA

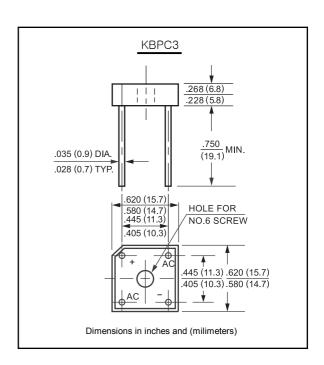
• Case: UL-94 Class V-0 recognized Flame Retardant Epoxy

• 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 3005	KBPC 301	KBPC 302	KBPC 304	KBPC 306	KBPC 308	KBPC 310	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	3.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		Іғѕм	50							Α
Forward Voltage per leg	@I _F = 1.5A	VFM				1.1				V
Peak Reverse Current $\textcircled{0}T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $\textcircled{0}T_A = 125^{\circ}C$		IR	5.0 500						μΑ	
I²t Rating for Fusing (t<8.3ms) (Note 2)		l ² t	10							A ² s
Typical Junction Capacitance (Note 3)		Cj	25							pF
Typical Thermal Resistance per leg (Note 1)		RθJC	10							°C/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.



KBPC3005 THRU KBPC310

RATINGS AND CHARACTERISTIC CURVES

