

KBPC15005 Thru KBPC1510



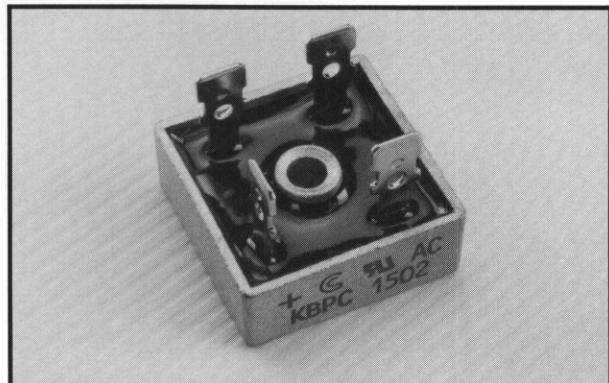
15 AMP SILICON BRIDGE RECTIFIER

■ FEATURES

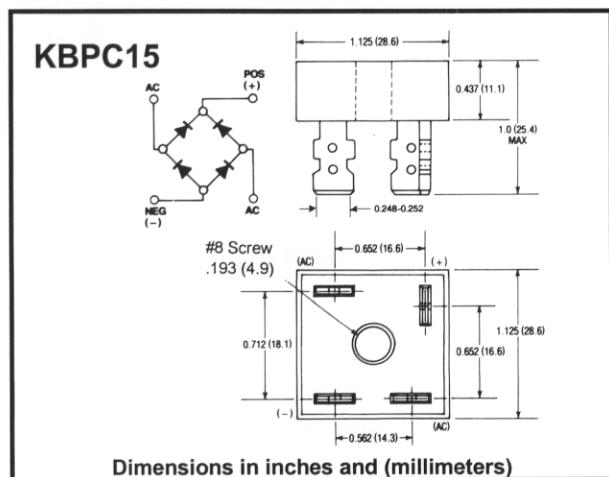
- Rating to 1000V PRV
- 300 Amperes surge capability
- High efficiency
- Electrically isolated metal case for maximum heat dissipation
- UL recognized: File #E95060

■ Mechanical Data

- Case: Metal
- Mounting: Through hole for #8 screw
- Weight: 1.1 ounce, 31.6 grams



■ Outline Drawing



Dimensions in inches and (millimeters)

■ Maximum Ratings & Characteristics

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

		KBPC 15005	KBPC 1501	KBPC 1502	KBPC 1504	KBPC 1506	KBPC 1508	KBPC 1510	Units
Maximum Recurrent Peak Reverse Voltage	V _{RMM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Current @ T _C = 55°C	I _(AV)				15.0				A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC Method)	I _{FSM}				300				A
Maximum Forward Voltage Drop per Bridge Element At 7.5A DC	V _F				1.2				V
Maximum DC Reverse Current At Rated@ T _A = 25°C Blocking Voltage per Bridge Element @ T _A = 100°C	I _R				10				µA
					1				mA
I ² t Rating for Fusing (t < 8.3ms)	I ² t				373				A ² S
Typical Thermal Resistance (Note 1)	R _{THJC}				2.5				°C/W
Operating Temperature Range	T _J				-55 to +125				°C
Storage Temperature Range	T _{STG}				-55 to +150				°C

Note: 1. Mounted on a 11.8 in² X 0.06 in thick (300mm² X 1.5mm thick) copper plate