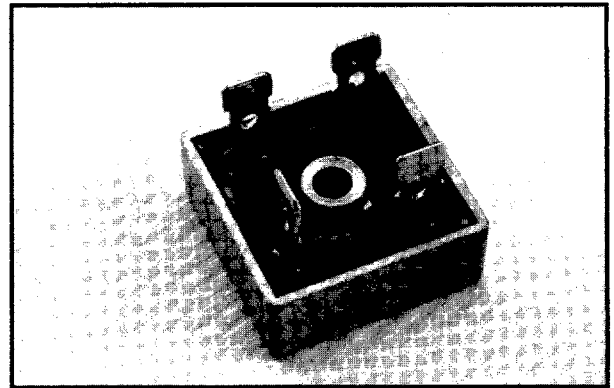
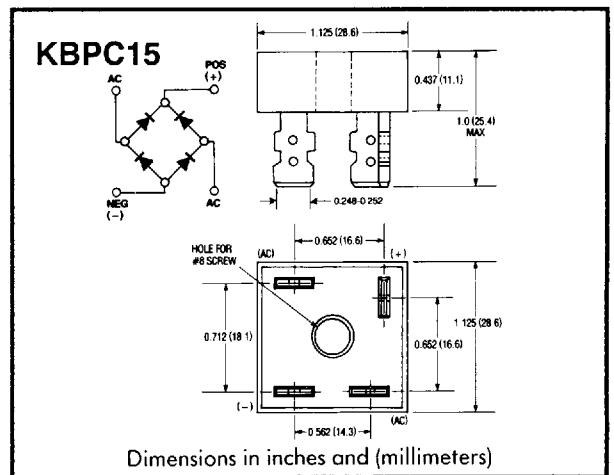


KBPC15005 Thru KBPC1510

15 AMP SILICON BRIDGE RECTIFIER



Outline Drawing



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

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 _{RRM}	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								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 1								μA 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