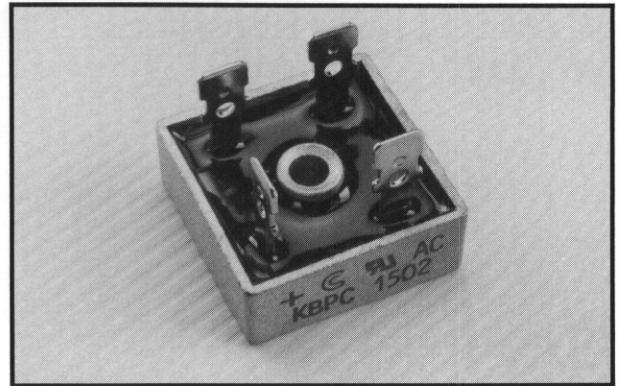


KBPC15005 Thru KBPC1510



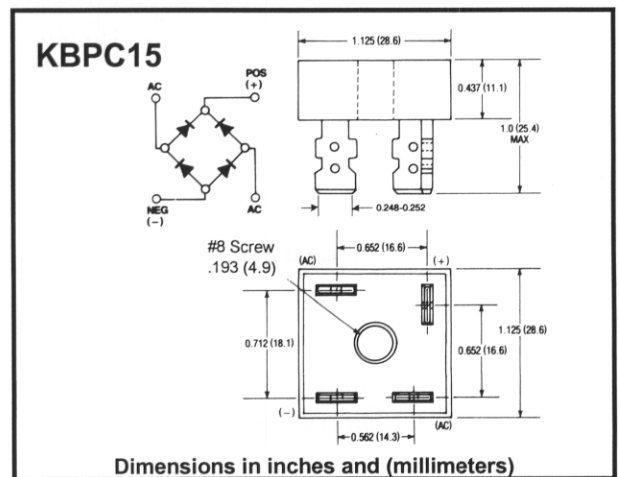
15 AMP SILICON BRIDGE RECTIFIER



FEATURES

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

Outline Drawing



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 @ $T_C = 55^\circ\text{C}$	$I_{(AV)}$	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 @ $T_A = 25^\circ\text{C}$	I_R	10							μA
Blocking Voltage per Bridge Element @ $T_A = 100^\circ\text{C}$		1							mA
$I^2 t$ Rating for Fusing ($t < 8.3\text{ms}$)	$I^2 t$	373							A^2S
Typical Thermal Resistance (Note 1)	R_{THJC}	2.5							$^\circ\text{C/W}$
Operating Temperature Range	T_J	-55 to +125							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

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