

KBP300G~KBP310G

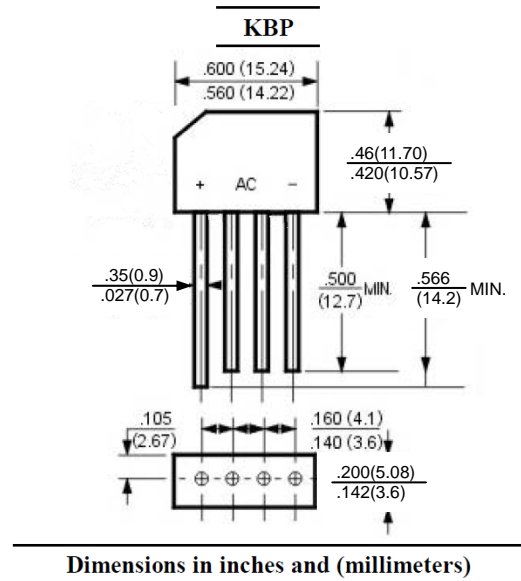
Single-Phase Silicon Bridge Rectifiers

Reverse Voltage - 50 to 1000 V

Forward Current - 3 A

Features

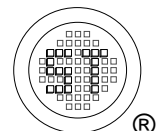
- High surge current capability
- High case dielectric strength



Absolute Maximum Ratings and Characteristics

Ratings at $T_a = 25^\circ\text{C}$ ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.
For capacitive load, derate current by 20%

Parameter	Symbols	KBP300G	KBP301G	KBP302G	KBP304G	KBP306G	KBP308G	KBP310G	Units
	Marking	KBP300G	KBP301G	KBP302G	KBP304G	KBP306G	KBP308G	KBP310G	-
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input 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 Rectified Output Current	$I_{F(AV)}$	3							A
Peak Forward Surge Current 8.3mS Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	80							A
Maximum Forward Voltage Drop per Bridge Element at 3A	V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Element	I_R	10 500							μA
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	30							$^\circ\text{C/W}$
Operating Temperature Range	T_j	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{Sig}	-55 to +150							$^\circ\text{C}$



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