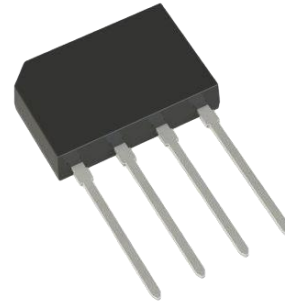


4A Single Phase Bridge Rectifier

Features

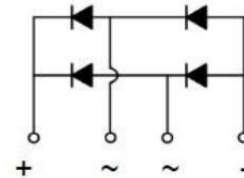
- Ideal for printed circuit boards
- High case dielectric strength
- Reverse Voltage : 200 to 1000V
- Forward Current : 4A
- High temperature soldering : 260°C/10s at terminals



KBP

Applications

- General purpose use in AC/DC bridge full wave rectification for printer, power supply, switching mode power supply, adapter, and home appliances applications.



Maximum Ratings and Electrical characteristics

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

Parameter	Symbol	KBP 402	KBP 404	KBP 406	KBP 408	KBP 410	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_A=50^{\circ}C$	$I_{F(AV)}$	4.0					A
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load(JEDEC method)	I_{FSM}	125					A
Maximum Instantaneous Forward Voltage @4.0A	V_F	1.1					V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^{\circ}C$	10					μA
	$T_A=100^{\circ}C$	1000					
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	11					$^{\circ}C/W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	(-55 to +150)					$^{\circ}C$

Notes:

1. Thermal resistance from Junction to Ambient on P.C.board mounting.

Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

FIG.1 - FORWARD CURRENT DERATING CURVE

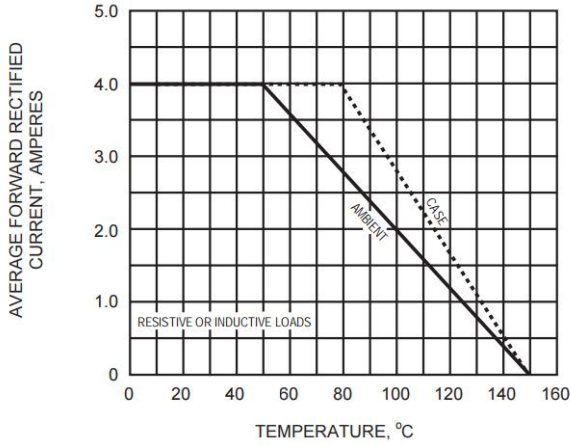


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

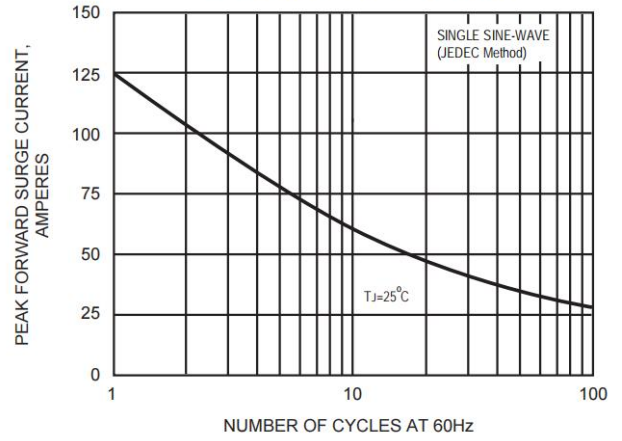


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

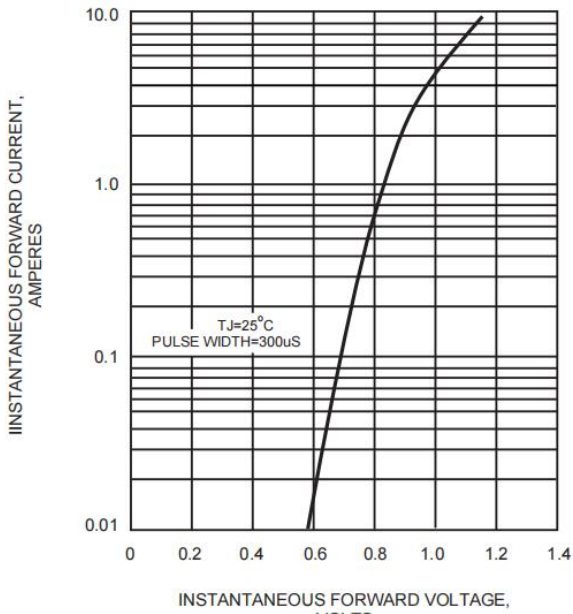
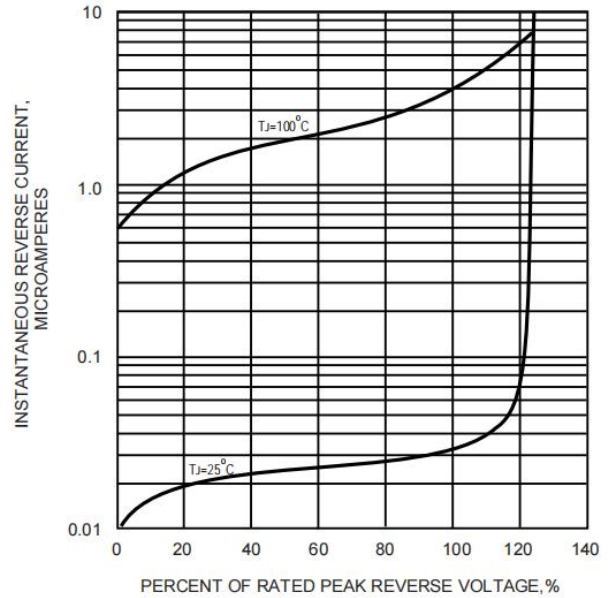
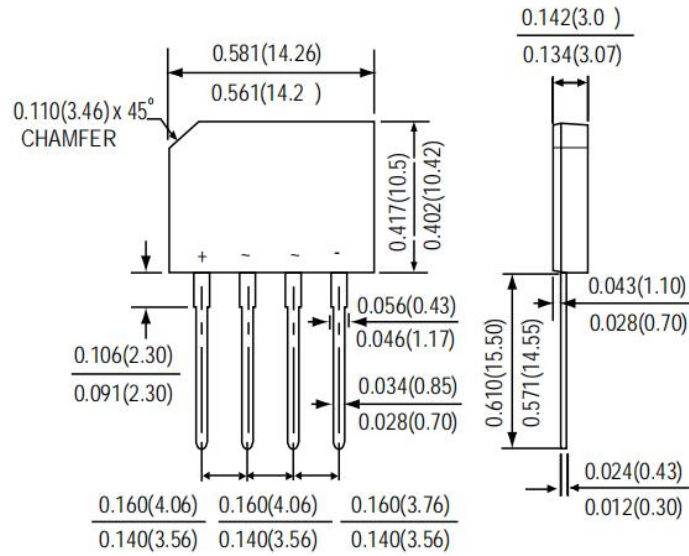


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



Package Outlines (Dimensions in mm)

Plastic surface mounted package(KBP)



*Dimensions in inches and (millimeters)

***Important Usage Information and Disclaimer**

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