

KBP2005 THRU KBP210

VOLTAGE RANGE CURRENT 50 to 1000 Volts 2.0 Ampere

KBP



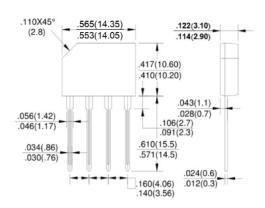
- Glass passivated chip junction
- · Ideal for surface mounted applications
- Low leakage

Features

- · High forward surge current capability
- High temperature soldering guaranteed:
 260 ℃/10 seconds at terminals

Mechanical Data

- Case: Molded plastic body
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Molded on body
- LeadP: Plated terminals solderable per MIL-STD-202E method 208C
- Weight: 0.039 ounce, 1.1gram



Dimensions in milimeters

Package: GBP

Maximum Ratings and Electrical 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%

TYPE NUMBER		SYMBOL S	KBP 2005	KBP 201	KBP 202	KBP 204	KBP 206	KBP 208	KBP 210	UNIT
Maximum Reverse Peak Repetitive Voltage		V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, 0.06"(1.5mm) lead length at T _c =100 ℃		I _(AV)	2.0					Amps		
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)		I _{FSM}	50					Amps		
Rating for Fusing (t<8.3ms)		l²t	18				A ² s			
Maximum Instantaneous Forward Voltage drop Per Bridge element 2.0A		V _F	1.1					Volts		
Maximum Reverse Current at rated DC blocking voltage per element	TA=25℃		5						μAmps	
	TA=100℃	l _R	50							
Typical Thermal Resistance (NOTE 2)		Rejc	6					°C/W		
		R _{⊝JL}	5					°C/W		
		R _{ΘJA}	42					°C/W		
Operating and Storage Temperature Range		T _J ,T _{ST}	(-55 to +150)					$^{\circ}$		

Notes:

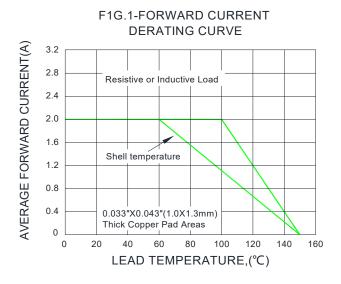
- 1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
- 2. Unit mounted on P.C.B. with 0.033"×0.043"(1.00mm×1.30mm) copper pads.

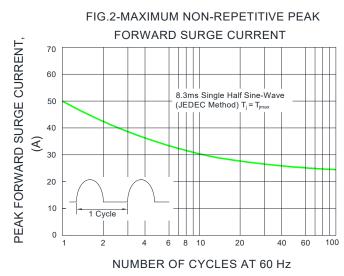


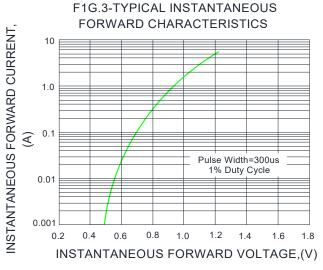
KBP2005 THRU KBP210

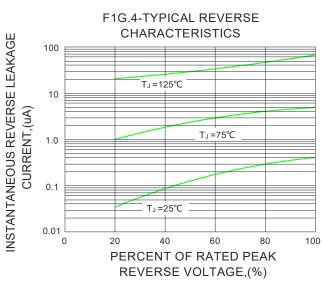
VOLTAGE RANGE CURRENT 50 to 1000 Volts 2.0 Ampere

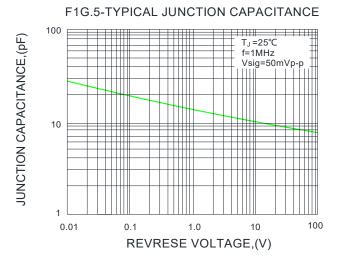
Ratings and Characteristic Curves (TA=25°C unless otherwise noted)









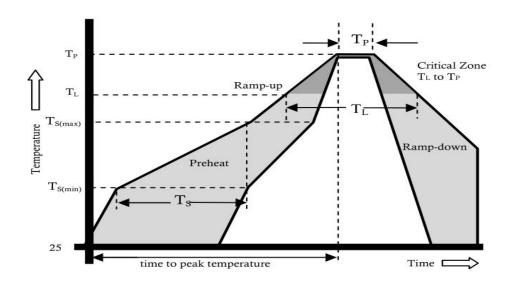




KBP2005 THRU KBP210

VOLTAGE RANGE CURRENT 50 to 1000 Volts 2.0 Ampere

Reflow Profile



Reflow Condition		Pb-Free Assembly				
	Temperature Min.	+150°C				
Pre Heat	Temperature Max.	+200°C				
	Time(Min to Max)	60-180 secs.				
Average ramp up rate(Liquidus $Temp(T_L)$ to peak)		3°C/sec. Max.				
$T_{S}(max)$ to T_{L} - Ramp-up Rate		3°C/sec. Max.				
Reflow	Temperature (T _L)(Liquidus)	+217°C				
	Temperature (T _L)	60-150 secs.				
Peak Temp (T _P)		+(260+0/-5)°C				
Time within 5°C of actual Peak Temp (T _P)		25 secs.				
Ramp-down Rate		6°C/sec. Max.				
Time 25°C to peak Temp (T _P)		8 min. Max.				
Do not exceed		+260°C				



SINGLE-PHASE SILICON BRIDGE RECTIFIER

KBP2005 THRU KBP210

VOLTAGE RANGE CURRENT 50 to 1000 Volts 2.0 Ampere

Disclaimer

The information presented in this document is for reference only. Chongqing changjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Changjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.czlangjie.com , or consult your nearest Langjie's sales office for further assistance.