



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Single Phase Glass Passivated Silicon Bridge Rectifier

$V_{RRM} = 600\text{ V} - 1000\text{ V}$

$I_O = 2\text{ A}$

### Features

- Ideal for printed circuit board
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- Built-in printed circuit board stand-offs
- High temperature soldering guaranteed 265°C/ 10 seconds
- High case dielectric strength
- Types from 600 V to 1000 V  $V_{RRM}$
- Not ESD Sensitive

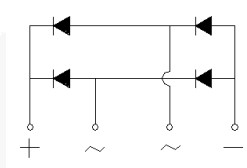
### Mechanical Data

Case: Reliable low cost construction

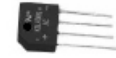
Terminals: Plated leads, solderable per MIL-STD-202, Method 208

Mounting position: Any

Weight: 0.065 oz, 2.2 grams



KBP Package



### Maximum ratings at $T_a = 25\text{ °C}$ (ambient temperature), unless otherwise specified

Parameter	Symbol	Conditions	KBP206G	KBP208G	KBP210G	Unit
Repetitive peak reverse voltage	$V_{RRM}$		600	800	1000	V
RMS reverse voltage	$V_{RMS}$		420	560	700	V
DC blocking voltage	$V_{DC}$		600	800	1000	V
Operating temperature	$T_j$		-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	$T_{stg}$		-55 to 150	-55 to 150	-55 to 150	°C

### Electrical characteristics at $T_a = 25\text{ °C}$ , unless otherwise specified

Single phase, half sine wave, 60 Hz, resistive or inductive load

For capacitive load derate current by 20%

Parameter	Symbol	Conditions	KBP206G	KBP208G	KBP210G	Unit
Maximum average forward rectified current	$I_O$	$T_a = 50\text{ °C}$	2	2	2	A
Peak forward surge current	$I_{FSM}$	single sine-wave	60	60	60	A
Maximum instantaneous forward voltage per leg	$V_F$	$I_F = 2\text{ A}$	1.1	1.1	1.1	V
Maximum reverse current at rated DC blocking voltage per leg	$I_R$	$T_a = 25\text{ °C}$	10	10	10	$\mu\text{A}$
		$T_a = 100\text{ °C}$	500	500	500	

### Thermal characteristics

Parameter	Symbol	Conditions	KBP206G	KBP208G	KBP210G	Unit
Thermal resistance	$R_{\theta JL}$		25	25	25	°C/W



FIG.1-MAXIMUM FORWARD CURRENT DERATING CURVE

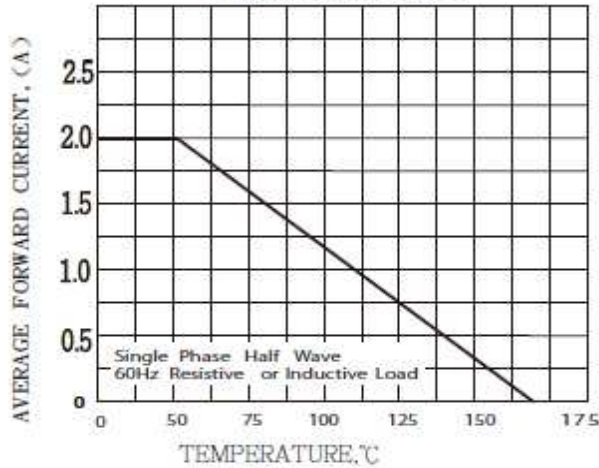


FIG.2-MAXIMUM NON-RECURRENTIVE FORWARD SURGE CURRENT

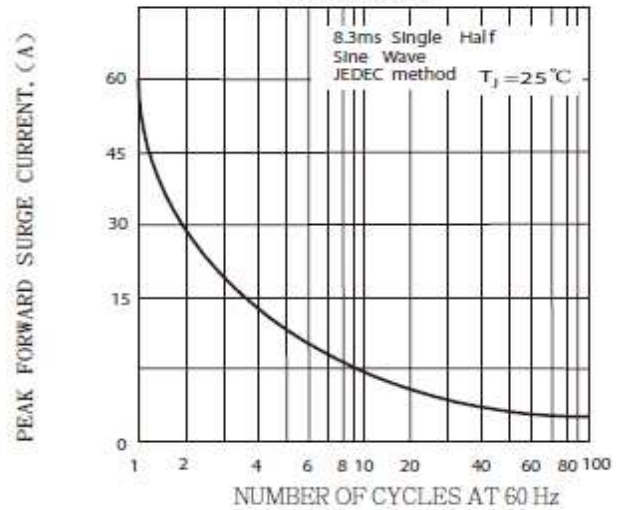


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

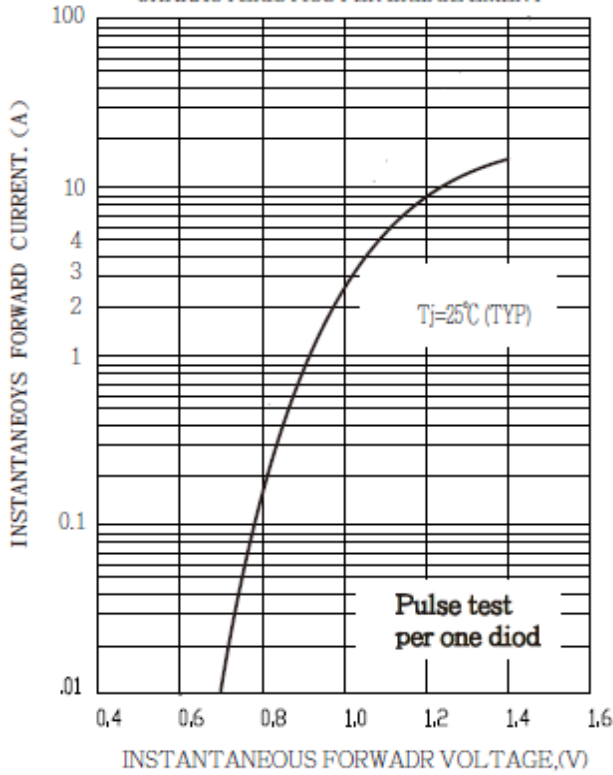
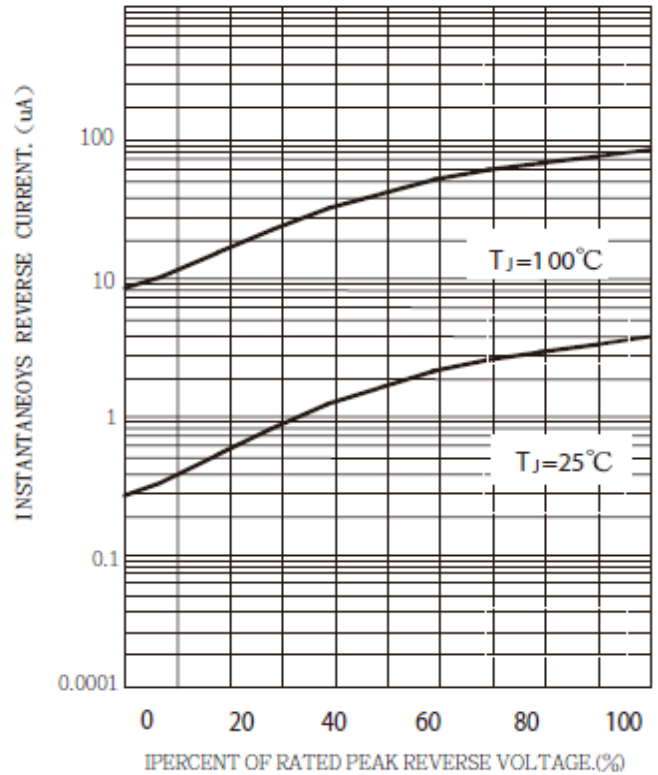


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



**Package dimensions and terminal configuration**

Product is marked with part number and terminal configuration.

