



KBU005G THRU KBU10G

Glass Passivated Bridge Rectifiers

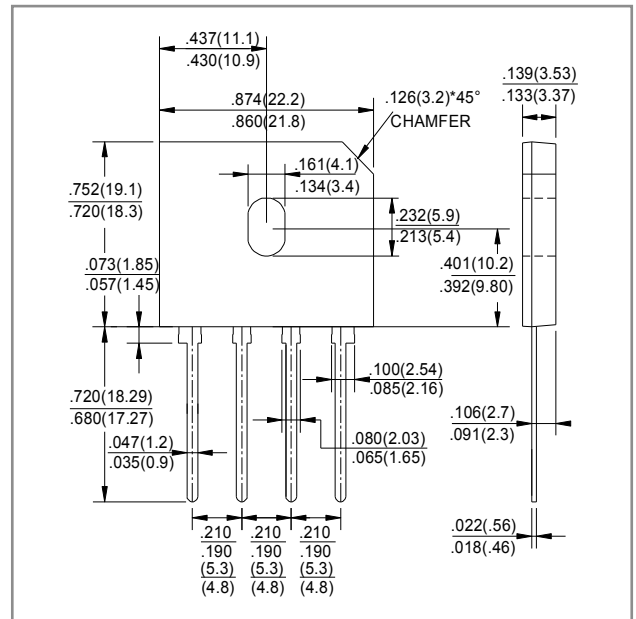
Volatge Rangs - 50 to 1000 Volts

Forward Current - 8.0 Amperes

Features

- Surge overload rating - 200 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has U/L the flammability classification 94V-0
- Mounting position:Any

GBU



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	GBU8AG	GBU8BG	GBU8DG	GBU8G	BU8JG	GBU8KG	GBU8MG	UNIT	
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 (with heatsink Note 2) Rectified Current @ T _C =100°C (without heatsink)	I _(AV)					8.0				A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}					200				A
Maximum Forward Voltage at 4.0A DC	V _F					1.1				V
Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking Voltage @ T _J =125°C	I _R					10.0				µA
I ² t Rating for Fusing (t<8.3ms)	I ² t					166				A ² s
Typical Junction Capacitance Per Element (Note1)	C _J					60				pF
Typical Thermal Resistance	R _{θJC}					2.2				°C/W
Operating Temperature Range	T _J					-55 to +150				°C
Storage Temperature Range	T _{STG}					-55 to +150				°C

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Device mounted on 75mm*75mm*1.6mm Cu plate heatsink.

FIG.1-FORWARD CURRENT DERATING CURVE

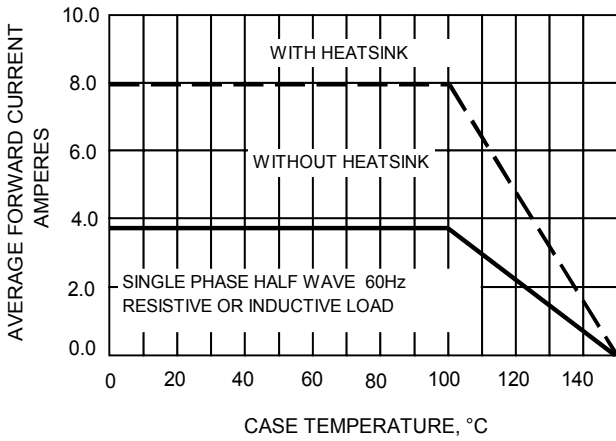


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

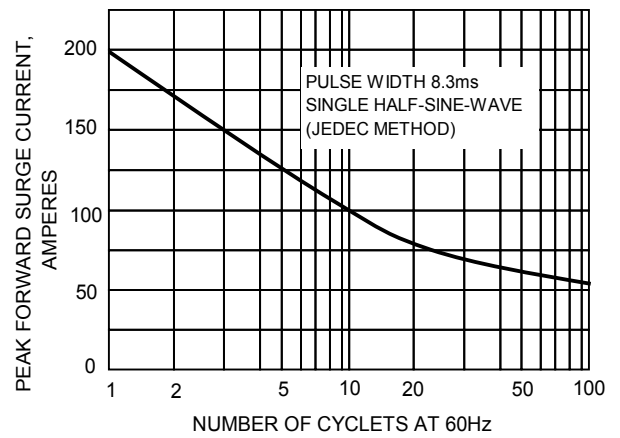


FIG.3-TYPICAL JUNCTION CAPACITANCE

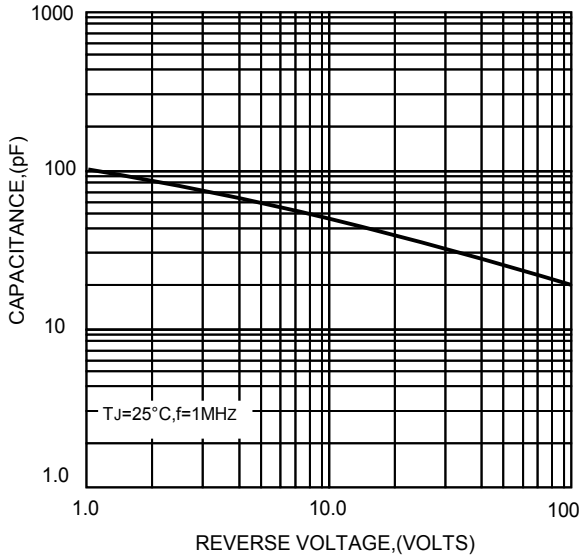


FIG.4-TYPICAL FORWARD CHARACTERISTICS

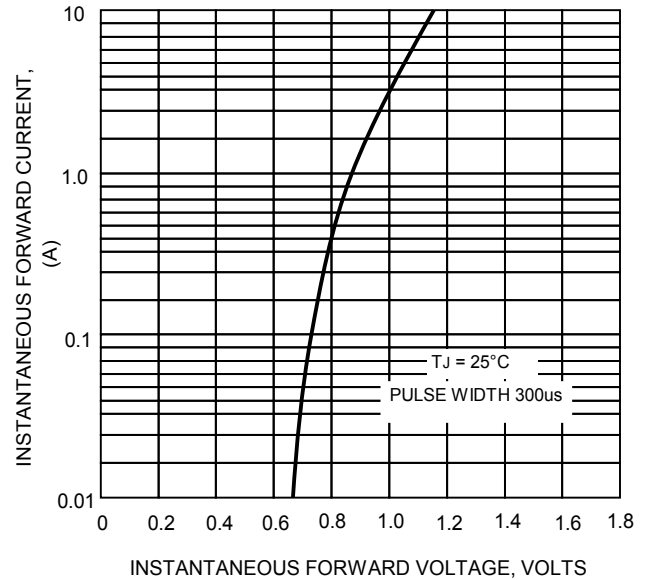


FIG.5-TYPICAL REVERSE CHARACTERISTICS

