

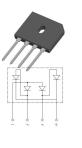
VOLTAGE RANGE CURRENT 50 to 1000 Volts 4.0 Ampere

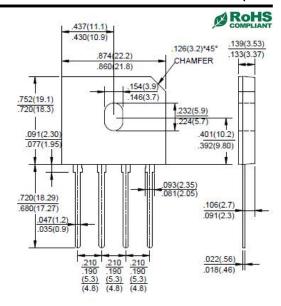
Features

- · Glass Passivated Bridge Rectifiers
- Reverse Voltage 50 to 1000Volts
- Forward Current 4.0Amperes
- Surge overload rating -200 amperes peak
- · Ideal for printed circuit board
- · Reliable low cost construction utilizing molded plastic technique
- Plastic material has U/L flammability classification 94V-0
- Mounting postition:Any
- Weight: 0.138 ounces, 3.90grams

Mechanical Data

- Maximum Ratings and
- Electrical Characteristics
- specified.Single phase, half wave ,60Hz, resistive or inductive
- load. For capacitive load, derate current by 20%





Dimensions in inches and (milimeters)

Package: GBU

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise

TYPE NUMBER		SYMBOL S	GBU 4005	GBU 401	GBU 402	GBU 404	GBU 406	GBU 408	GBU 410	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			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)	4.0				Amps			
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)		I _{FSM}	125					Amps		
Rating for Fusing (t<8.3ms)		l²t	112						A ² s	
Maximum Instantaneous Forward Voltage drop Per Bridge element 4.0A		V _F	1.1					Volts		
Maximum Reverse Current at rated DC blocking voltage per element	TA=25℃		10					Amma		
	TA=125℃	- I _R	500					- μAmps		
Typical Junction Capacitance Per Element (Note1)		CJ	211 94			pF				
Typical Thermal Resistance (NOTE 2)		Rejc	4.2				°C/W			
Operating and Storage Temperature Range		T _J ,T _{STG}	(-55 to +150)				$^{\circ}$			

Notes:

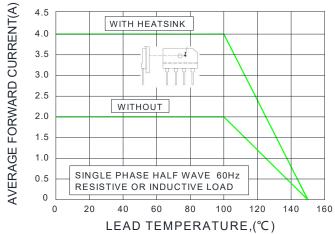
- 1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
- 2. Junction to case with heatsink.
- 3. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw.

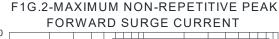


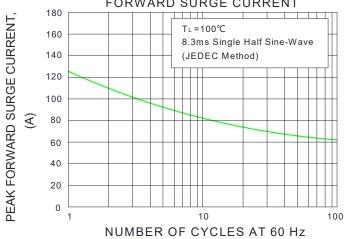
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Ratings and Characteristic Curves (TA=25°C unless otherwise noted)

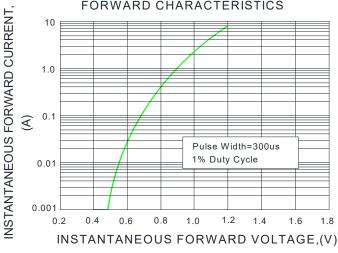




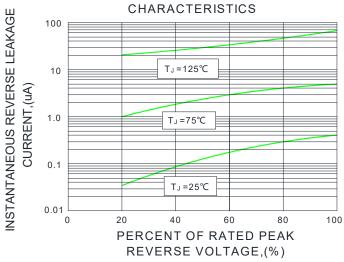




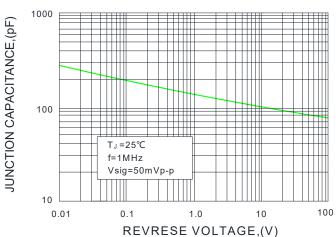
F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4-TYPICAL REVERSE



F1G.5-TYPICAL JUNCTION CAPACITANCE



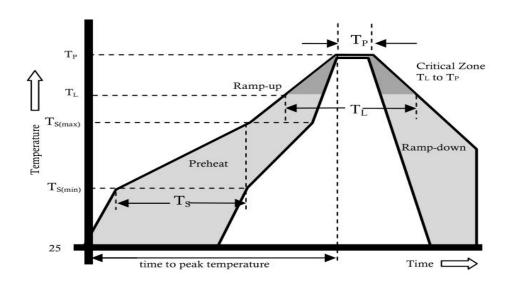


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Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	_	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBU	B1	Approximate 3.96	20	1000	2000	TUBE

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 _∟ - Ramp-up Rate		3°C/sec. Max.			
Reflow	Temperature (T _L)(Liquidus)	+217°C			
	Temperature (T∟)	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			



VOLTAGE RANGE

CURRENT

50 to 1000 Volts 4.0 Ampere

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