

VOLTAGE RANGE

100 to 1000 Volts 10.0 Ampere

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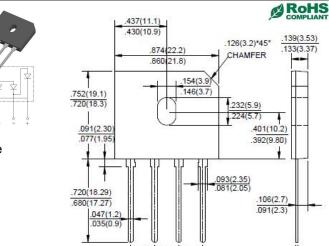
CURRENT

Features

- Glass Passivated Bridge Rectifiers
- Reverse Voltage 100 to 1000Volts
- Forward Current 8.0Amperes
- 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 1001	GBU 1002	GBU 1004	GBU 1006	GBU 1008	GBU 1010	UNIT
Maximum Reverse Peak Repetitive Voltage		V_{RRM}	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage			100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, 0.06" (1.5mm) lead length at T_C =100°C		I _(AV)	10.0				Amps		
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)		I _{FSM}	200				Amps		
Rating for Fusing (t<8.3ms)		l ² t	200				A ² s		
Maximum Instantaneous Forward Voltage drop Per Bridge element 5.0A		V _F	1.1				Volts		
Maximum Reverse Current at rated DC blocking voltage per element	TA=25℃		10 500			Amno			
	TA=100°C	· I _R					- μAmps		
Typical Junction Capacitance Per Element (Note1)		Сл		211			94		pF
Typical Thermal Resistance (NOTE 2)		Rejc	4.2			°C/W			
Mounting Torque (Recommended torque:0.5 N.m)		T _{OR}	0.8			N.m			
Operating and Storage Temperature Range		T _J ,Тsтg	(-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.

Sep-03, Rev A

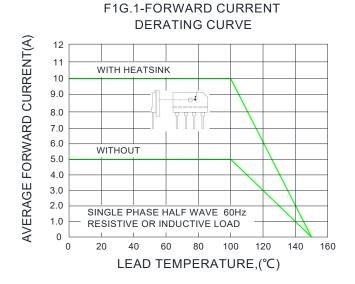


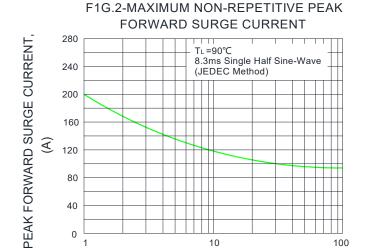
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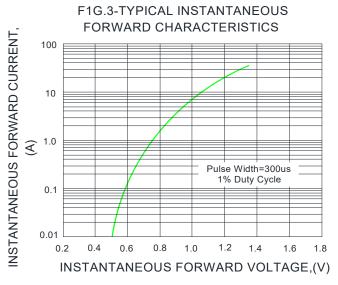
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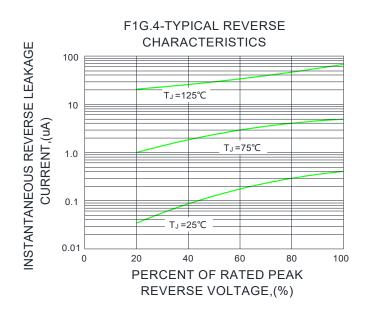
Ratings and Characteristic Curves (TA=25°C unless otherwise noted)



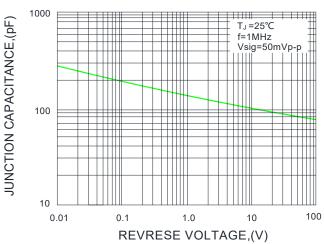


NUMBER OF CYCLES AT 60 Hz





F1G.5-TYPICAL JUNCTION CAPACITANCE



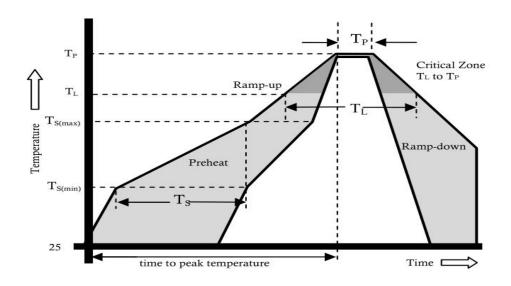


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Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	-	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBU1001 THRU GBU1010	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 _L - Ramp-up Rate		3°C/sec. Max.		
Reflow	Temperature (T _∟)(Liquidus)	+217°C		
Reliow	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		



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