

VOLTAGE RANGE CURRENT

100 to 1000 Volts

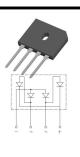
15.0 Ampere

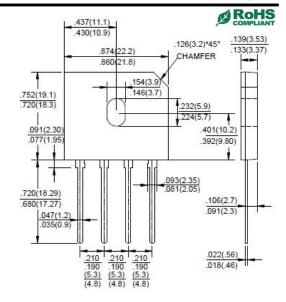
Features

- Glass Passivated Bridge Rectifiers
- Reverse Voltage 100 to 1000Volts
- Forward Current 15Amperes
- 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		SYMBO LS	GBU 1501	GBU 1502	GBU 1504	GBU 1506	GBU 1508	GBU 1510	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 ℃		I _(AV)	15.0				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	288				A ² s		
Maximum Instantaneous Forward Voltage drop Per Bridge element 7.5A		VF	1.1				Volts		
Maximum Reverse Current at rated DC blocking	TA=25℃	l _R	10					μAmps	
voltage per element	TA=125°C	IR	500					μλιτίρο	
Typical Junction Capacitance Per Element (Note1)		CJ		211	94		pF		
Typical Thermal Resistance (NOTE 2)		Rejc	4.3				°C/W		
Mounting Torque (Recommended torque:0.5 N.m)		T _{OR}	0.8				N.m		
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. 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.

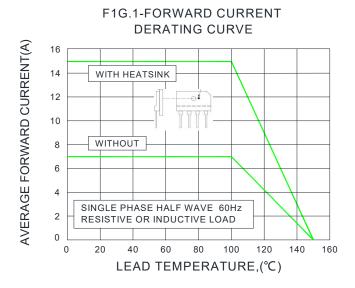


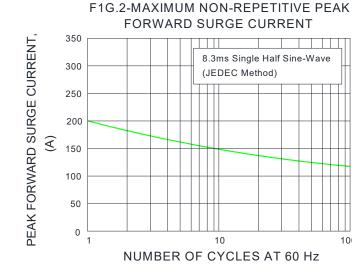
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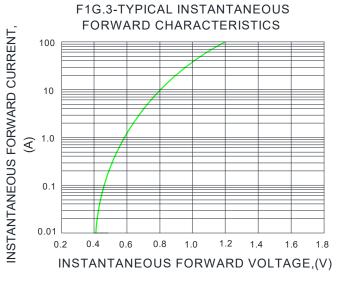
100 to 1000 Volts 15.0 Ampere

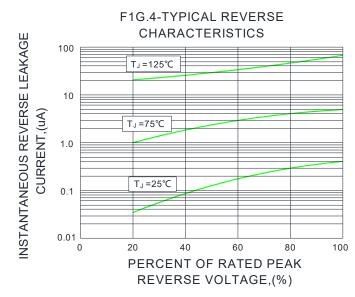
100

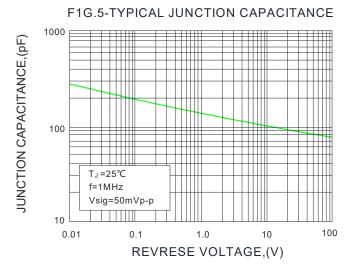
Ratings and Characteristic Curves (TA=25°C unless otherwise noted)











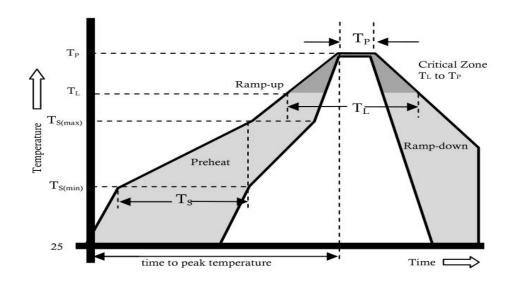


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Ordering Information (Example)

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

Reflow Profile



Reflow Condition		Pb-Free Assembly		
Pre Heat	Temperature Min.	+150°C		
	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∟)	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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15.0 Ampere

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