

VOLTAGE RANGE CURRENT 200 to 1000 Volts 25.0 Ampere



### **Features**

- Glass passivated die construction
- Reverse Voltage 200 to 1000Volts
- Ideal for printed circuit boards
- High surge current capability
- High temperature soldering guaranteed:
- 265°C/10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension
- Plastic material has U/L flammability classification 94V-0

#### Mechanical Data

- Case: Molded plastic case
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Marked on Body
- Mounting postition:Any
- specified. Single phase, half wave ,60Hz, resistive or inductive
- load. For capacitive load, derate current by 20%





#### Bridge Type

TYPE	VRRM	VRSM
GBJ 2502	200V	300V
GBJ 2504	400V	500V
GBJ 2506	600V	700V
GBJ 2508	800V	900V
GBJ 2510	1000V	1100V

Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25°Cunless otherwise noted)

Symbol	Conditions	Values	Units
I(AV)	Maximum average forward output rectified current Tc =87°C	25	А
IFSM Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method)		420	А
l <sup>2</sup> t	Rating for fusing (t<10ms)	730	А
Visol	a.c.50HZ;r.m.s.;1min	2500	V
RÐJC	Maximum thermal resistance per leg (1)	1.5	°C/W
TOR	Mounting Torque (Recommended torque:0.5 N.m)	0.8	N.m
Tj, TSTG	Operating Junction and storage temperature range	-55 to+150	℃
Weight	Approximate Weight	7	g

#### Electrical Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

1	Electrical circulation (14 Ee e arrice circinate force)					
	Symbol	Conditions	Values	Units		
	VF	Maximum Instantaneous Forward Voltage per leg	IFM =12.5A	1.1	V	
	IR	Maximum DC reverse current at rated	T <sub>A</sub> = 25°C	5.0		
	IK	DC blocking voltage per leg	$T_A = 125^{\circ}C$	500	μΑ	

#### Notes:

- 1. Junction to case with heatsink.
- 2. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw.

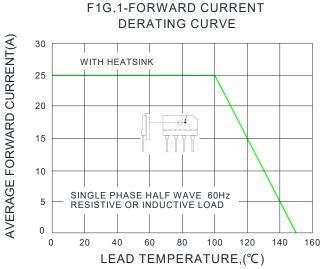


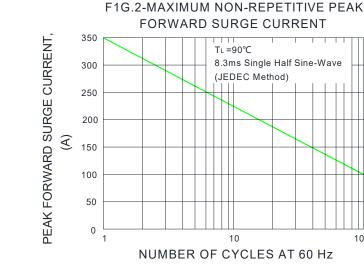
VOLTAGE RANGE

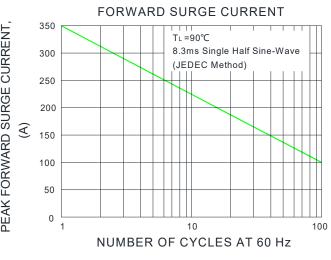
200 to 1000 Volts

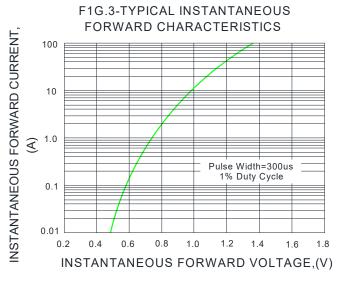
**CURRENT** 25.0 Ampere

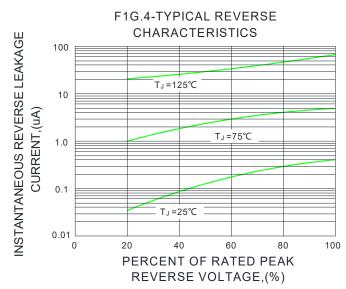
Ratings and Characteristic Curves (T<sub>A</sub>=25°C unless otherwise noted)



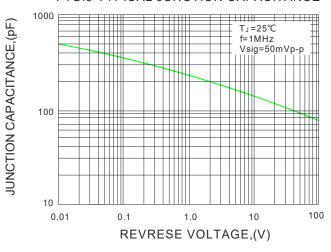








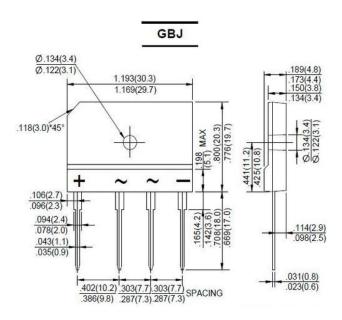
F1G.5-TYPICAL JUNCTION CAPACITANCE





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Package Outline Dimensions in inches (millimeters)



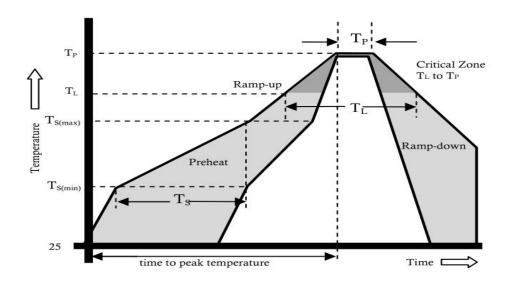
# Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBU2502 THRU GBU2510	B1	Approximate 3.96	20	1000	2000	TUBE



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# 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 ra	mp up rate(Liquidus Temp(T <sub>L</sub> ) to peak)	3°C/sec. Max.		
T <sub>s</sub> (max) to T <sub>L</sub> - Ramp-up Rate		3°C/sec. Max.		
Doflow	Temperature (T <sub>L</sub> )(Liquidus)	+217°C		
Reflow	Temperature (T <sub>L</sub> )	60-150 secs.		
Peak Temp (T <sub>P</sub> )		+(260+0/-5 )°C		
Time within 5°C of actual Peak Temp (T <sub>P</sub> )		25 secs.		
Ramp-down Rate		6°C/sec. Max.		
Time 25°C to peak Temp (T₂)		8 min. Max.		
Do not exceed		+260°C		



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