

VOLTAGE RANGE CURRENT 200 to 1000 Volts 35.0 Ampere

# ROHS

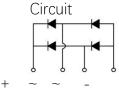
#### **Features**

- 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 3502	200V	300V
GBJ 3504	400V	500V
GBJ 3506	600V	700V
GBJ 3508	800V	900V
GBJ 3510	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 =100℃	35	А
IFSM	Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method)		А
l <sup>2</sup> t	Rating for fusing (t<10ms)	800	A <sup>2</sup> s
Visol	a.c.50HZ;r.m.s.;1min	2500	V
RθJC	Maximum thermal resistance per leg <sup>(1)</sup>	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	℃
Weight	Approximate Weight	7	g

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

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 <sub>A</sub> = 125℃	500	μΑ

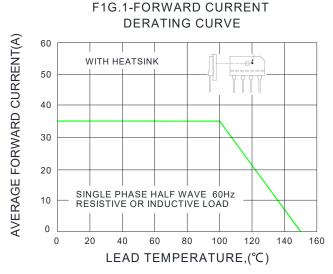
#### Notes:

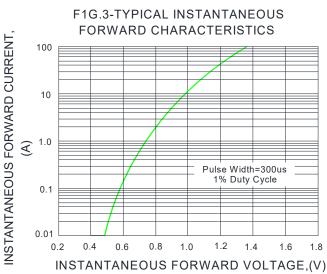
- 1. Junction to case with heatsink.
- 2. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw.

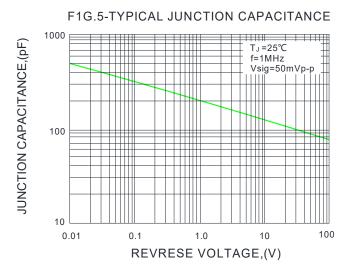


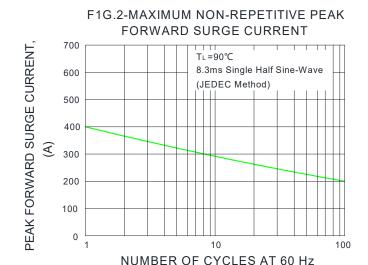
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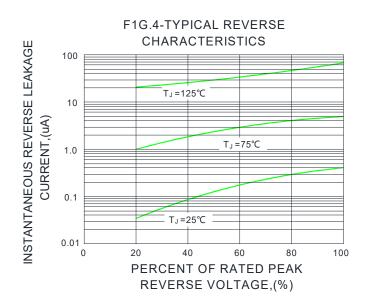
Ratings and Characteristic Curves (T<sub>A</sub>=25°C unless otherwise noted)







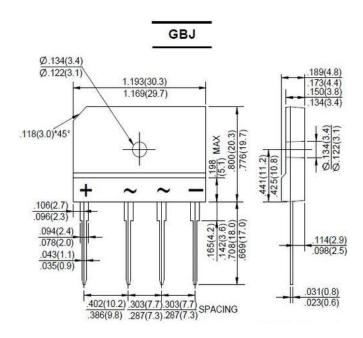






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Package Outline Dimensions in inches (millimeters)



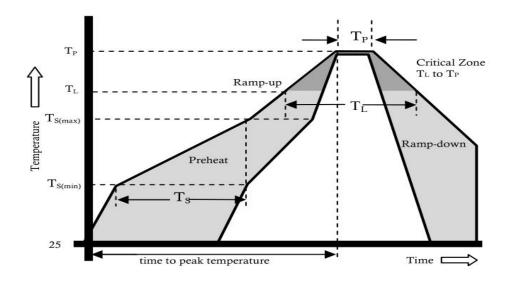
## Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBJ	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>ι</sub> - Ramp-up Rate		3°C/sec. Max.	
Doflow	Temperature (T <sub>L</sub> )(Liquidus)	+217°C	
Reflow	Temperature (T <sub>∟</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 (T <sub>P</sub> )		8 min. Max.	
	Do not exceed	+260°C	



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