



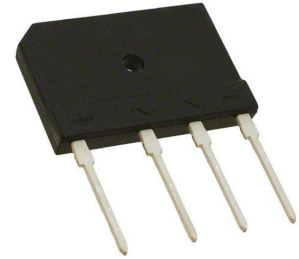
GBJ3502 THRU GBJ3510

VOLTAGE RANGE	200 to 1000 Volts
CURRENT	35.0 Ampere



Features

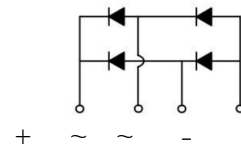
- Glass passivated die construction
- Reverse Voltage - 200 to 1000Volts
- Ideal for printed circuit boards
- High surge current capability
- High temperature soldering guaranteed:
- 265°C/10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension
- Plastic material has U/L flammability classification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



Mechanical Data

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

Circuit



Bridge Type

TYPE	VRRM	VRSRM
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 ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Symbol	Conditions	Values	Units
I(AV)	Maximum average forward output rectified current $T_c = 100^\circ\text{C}$	35	A
IFSM	Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method)	400	A
$I_2^2 t$	Rating for fusing ($t < 10\text{ms}$)	800	A^2s
Visol	a.c.50HZ;r.m.s.;1min	2500	V
R θ JC	Maximum thermal resistance per leg ⁽¹⁾	1.5	$^\circ\text{C}/\text{W}$
TOR	Mounting Torque (Recommended torque:0.5 N.m)	0.8	N.m
Tj, TSTG	Operating Junction and storage temperature range	-55	$^\circ\text{C}$
Weight	Approximate Weight	7	g

Electrical Characteristics ($T_A = 25^\circ\text{C}$ 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 DC blocking voltage per leg $T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$	5.0 500	μA

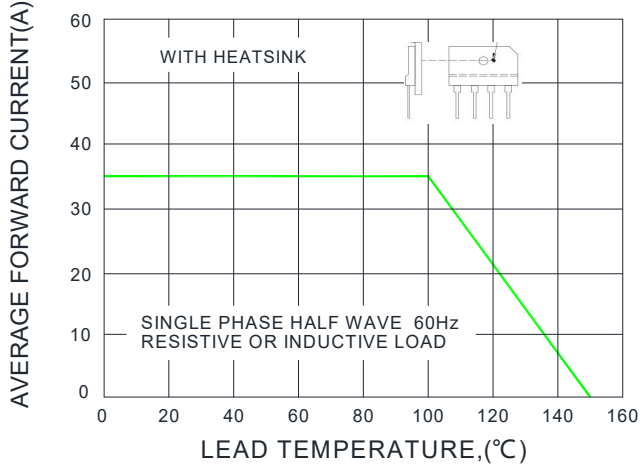
Notes:

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.

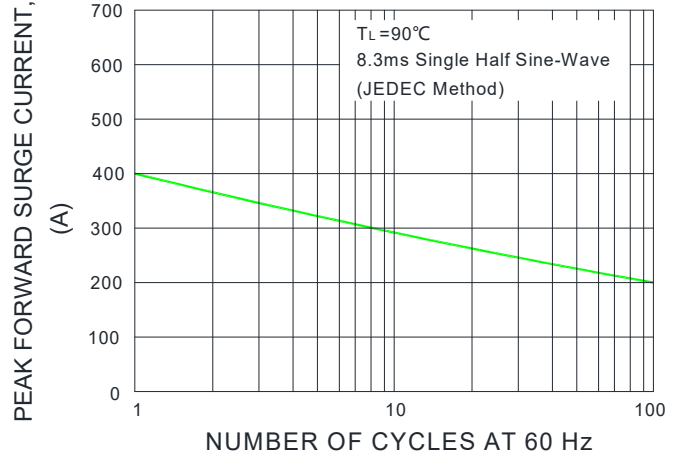


Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

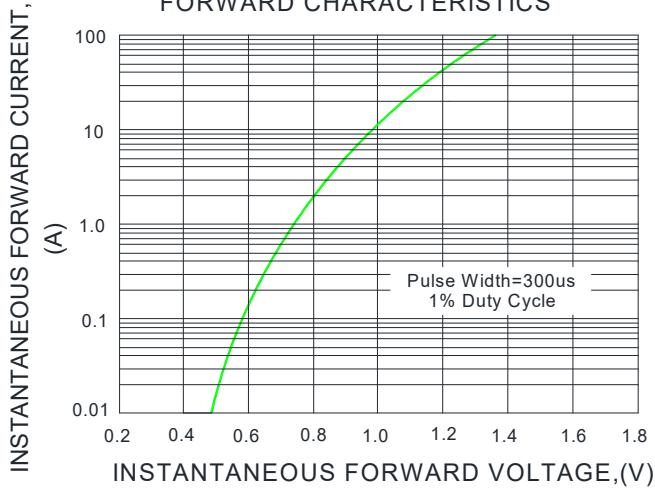
F1G.1-FORWARD CURRENT DERATING CURVE



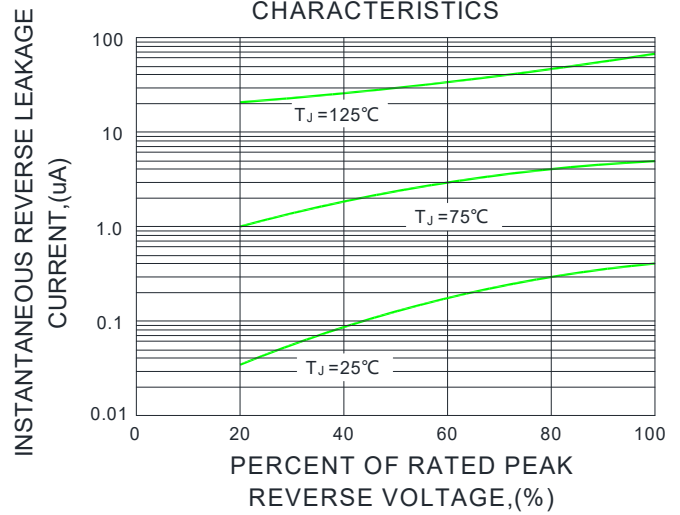
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



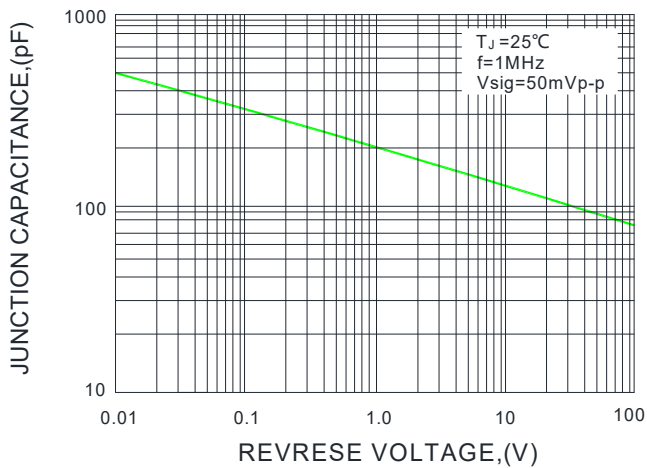
F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4-TYPICAL REVERSE CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE



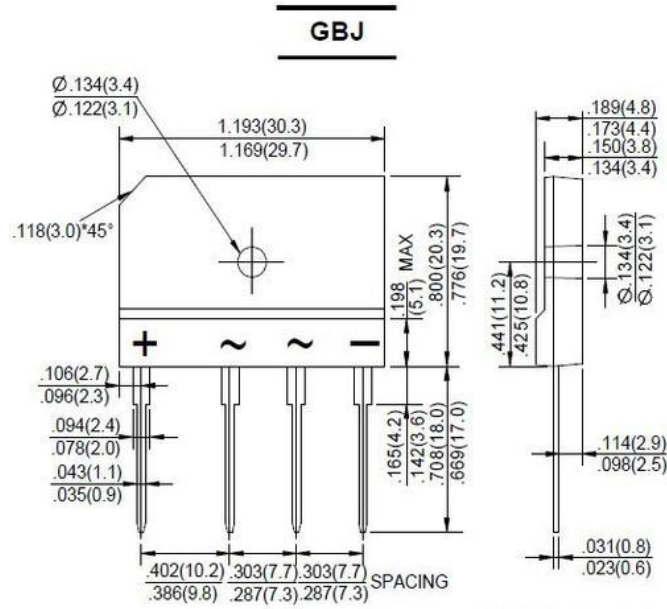


SINGLE-PHASE SILICON BRIDGE RECTIFIER

GBJ3502 THRU GBJ3510

VOLTAGE RANGE	200 to 1000 Volts
CURRENT	35.0 Ampere

Package Outline Dimensions in inches (millimeters)

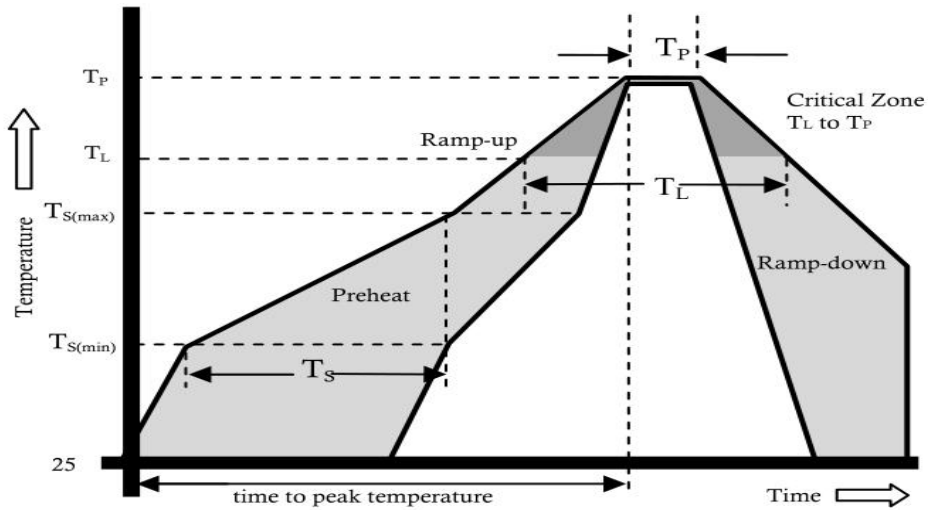


Ordering Information (Example)

PREFERRED 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



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_I)	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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