



Single Phase Glass Passivated Silicon Bridge Rectifier

 $V_{RRM} = 50 \text{ V} - 400 \text{ V}$ $I_{O} = 4 \text{ A}$

Features

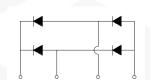
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- This series is UL listed under the Recognized
- Glass passivated chip junction
- High case dielectric strength
- Typical I_R less than 0,1 A
- · High surge current capability
- · Ideal for printed circuit boards
- · Not ESD Sensitive



Case: Molded plastic body over passivated junctions

Terminals: Plated leads, solderable per MIL-STD-750 Method 2026.

Weight: 0.071 oz, 2.0 g







Maximum ratings at Tc = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	GBL005	GBL01	GBL02	GBL04	Unit
Repetitive peak reverse	voltage V _{RRM}		50	100	200	400	V
RMS reverse voltage	V_{RMS}		35	70	140	280	V
DC blocking voltage	V_{DC}		50	100	200	400	V
Operating temperature	T _j		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T_{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

Electrical characteristics at Tc = 25 °C, unless otherwise specified

Single phase, half sine wave, 60 Hz, resistive or inductive load

For capacitive load derate current by 20%

Parameter	Symbol	Conditions	GBL005	GBL01	GBL02	GBL04	Unit
Maximum average forward rectified	d I _O	T _c = 50 °C (Note 1)	4.0	4.0	4.0	4.0	Α
current		$T_c = 40 ^{\circ}\text{C} (\text{Note 2})$	3.0	3.0	3.0	3.0	
Peak forward surge current	I _{FSM}	t_p = 8.3 ms, half sine	135	135	135	135	Α
Maximum instantaneous forward voltage drop per leg	V _F	I _F = 4 A	1.1	1.1	1.1	1.1	V
Maximum DC reverse current at	I _R	T _a = 25 °C	5	5	5	5	μΑ
rated DC blocking voltage per leg		T _a = 125 °C	500	500	500	500	
Rating for fusing	l ² t	t < 8.3 ms	75	75	75	75	A ² sec
Typical junction capacitance per leg (Note 3)	C _j		95	95	95	95	pF
Typical thermal registance per lea	$R_{\Theta JA}$	(Note 1)	22	22	22	22	°C/W
Typical thermal resistance per leg	$R_{\Theta JL}$	(Note 2)	3.5	3.5	3.5	3.5	

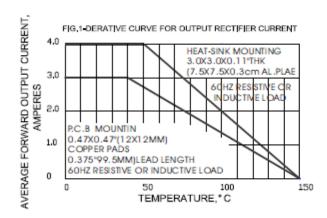
^{1 -} Unit mounted on 3.0" x 3.0" x 0.11" (75 mm x 75 mm x 3 mm) Al plate

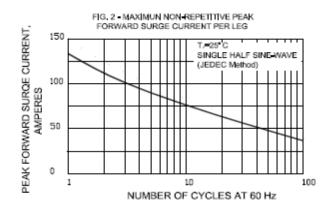
 $^{^{2}}$ - Unit mounted on P.C.B. At 0.375" (9.5 mm) lead length and 0.5" x 0.5" (12 mm x

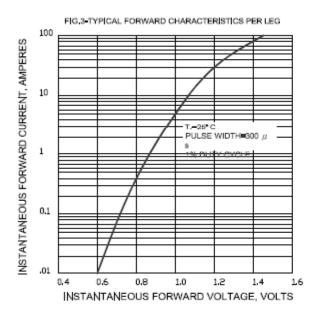
³ - Measured at 1.0 MHz and applied reverse bias of 4.0 V

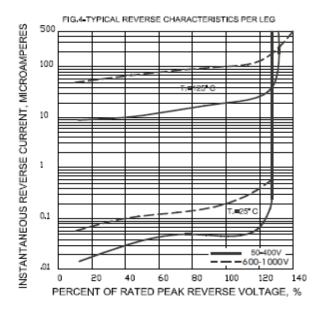
GBL005 thru GBL04

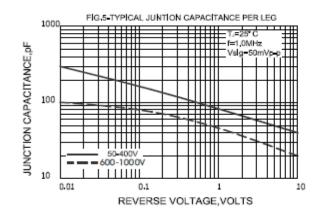


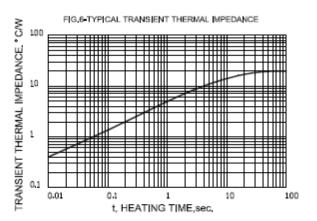








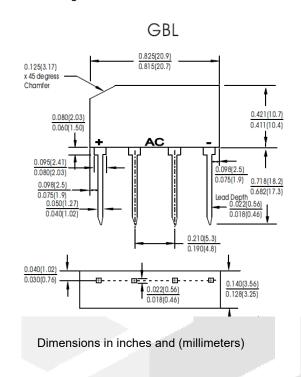


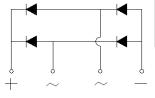




Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.





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GBL005 GBL01 GBL02 GBL04