



Single Phase Glass Passivated Silicon Bridge Rectifier

 $V_{RRM} = 600 \text{ V} -1000 \text{ V}$ $I_{O} = 4 \text{ A}$

Features

 Plastic package has Underwriters Laboratory Flammability Classification 94V-0

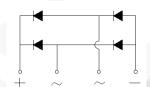
- This series is UL listed under the Recognized
- · Glass passivated chip junction
- · High case dielectric strength
- Typical I_R less than 0,1 A
- · High surge current capability
- · Ideal for printed circuit boards
- · Not ESD Sensitive

Mechanical Data

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	GBL06	GBL08	GBL10	Unit
Repetitive peak reverse voltage	V_{RRM}		600	800	1000	V
RMS reverse voltage	V_{RMS}		420	560	700	V
DC blocking voltage	V_{DC}		600	800	1000	V
Operating temperature	Tj		-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T_{stg}		-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	GBL06	GBL08	GBL10	Unit
Maximum average forward rectified current	I _O	T _c = 50 °C (Note 1)	4.0	4.0	4.0	Α
		$T_c = 40 ^{\circ}\text{C} (\text{Note 2})$	3.0	3.0	3.0	
Peak forward surge current	I _{FSM}	t _p = 8.3 ms, half sine	135	135	135	Α
Maximum instantaneous forward voltage drop per leg	V_{F}	I _F = 4 A	1.1	1.1	1.1	V
Maximum DC reverse current at rated DC blocking voltage per leg	I _R	T _a = 25 °C	5	5	5	μΑ
		T _a = 125 °C	500	500	500	
Rating for fusing	l ² t	t < 8.3 ms	75	75	75	A ² sec
Typical junction capacitance per leg (Note 3)	C _j		40	40	40	pF
Typical thermal resistance per leg	R _{oJA}	(Note 1)	22	22	22	°C/W
	$R_{\Theta JL}$	(Note 2)	3.5	3.5	3.5	

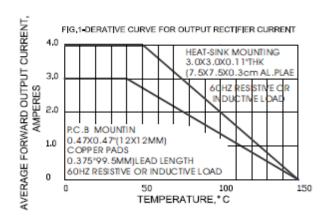
¹ - Unit mounted on 3.0" x 3.0" x 0.11" (75 mm x 75 mm x 3 mm) Al plate

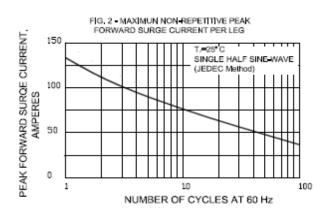
² - Unit mounted on P.C.B. At 0.375" (9.5 mm) lead length and 0.5" x 0.5" (12 mm x 12 mm)

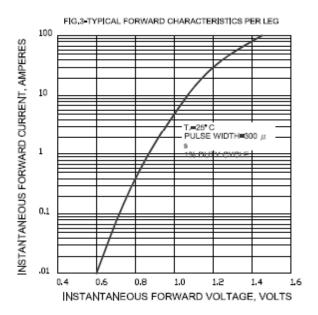
³ - Measured at 1.0 MHz and applied reverse bias of 4.0 V

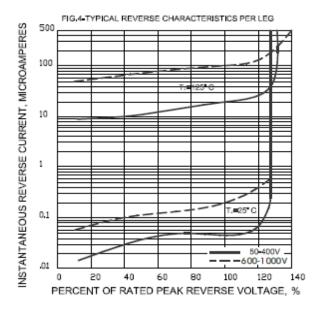
GBL06 thru GBL10

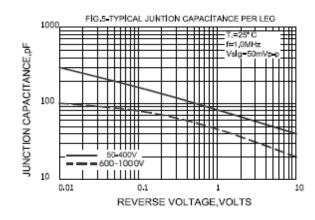


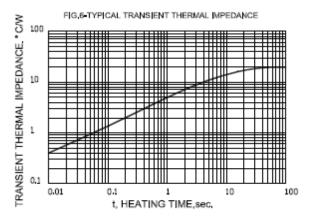














Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.

