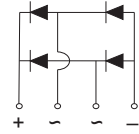


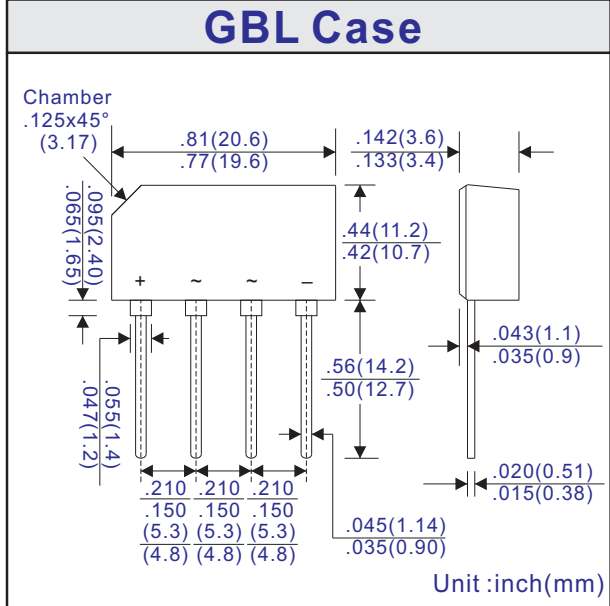


GBL4A thru GBL4M



4.0A Single-Phase Silicon Bridge Rectifiers - 50V-1000V

FEATURES
<ul style="list-style-type: none"> • Surge overload ratings to 150 amperes peak • Ideal for printed circuit board • Typical IR less than 0.1μA • Glass passivated chip junctions • High case dielectric strength • Low forward drop down voltage • Lead-free parts for green partner, meet RoHS requirements



MECHANICAL DATA
<ul style="list-style-type: none"> • Case: Molded plastic GBL case • Epoxy: UL94-V0 rated flame retardant • Terminals: Solderable per MIL-STD-750 Method 2026 • Polarity: shown on front side of case, positive lead by beveled corner • Mounting Position: Any • Weight: 0.071 ounce, 2.0 grams

MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

	Symbols	GBL 4A	GBL 4B	GBL 4D	GBL 4G	GBL 4J	GBL 4K	GBL 4M	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current at Tc=50°C, Note 1 at TA=25°C, Note 2	I(AV)					4.0			Amps
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC Method) Tj=150°C	IFSM					150			Amps
Maximum Instantaneous Forward Voltage at 4.0A	VF					1.1			Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage TA= 25°C TA=125°C	IR					5.0 500.0			μA
Rating for fusing (t<8.3mS)	I ² t					93			A ² sec
Typical Junction Capacitance (Note 3)	CJ				95			45	pF
Typical Thermal Resistance Per Leg (Note 2 & 1)	RθJA RθJL					22.0 3.5			°C/W
Operating Junction Temperature Range	TJ					-55 ~ +150			°C
Storage Temperature Range	TSTG					-65 ~ +150			°C

Note 1. Thermal resistance from junction to ambient with units mounted on 3.0x3.0x0.11" thick (7.5x7.5x0.3cm) Al. plate.
 2. Thermal resistance from junction to lead with units mounted on P.C.B. at 0.375" (9.5mm) lead length and 0.5x0.5" (12x12cm) copper pads.
 3. Measured at 1.0MHz and applied reverse voltage 4.0 Volts.

