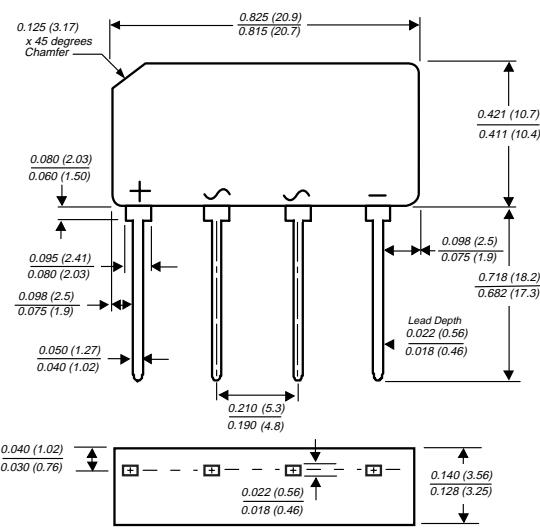


GBL005 THRU GBL10

GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 4.0 Amperes

Case Type GBL

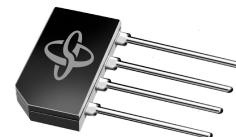


Polarity shown on front side of case: positive lead by beveled corner

Dimensions in inches and (millimeters)

FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ This series is UL listed under the Recognized Component Index, file number E54214
- ◆ Glass passivated chip junctions
- ◆ High case dielectric strength
- ◆ Typical I_{R} less than $0.1\mu A$
- ◆ High surge current capability
- ◆ Ideal for printed circuit boards
- ◆ High temperature soldering guaranteed: $260^{\circ}C/10$ seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension



MECHANICAL DATA

Case: Molded plastic body over passivated junctions

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

Mounting Position: Any

Weight: 0.071 ounce, 2.0 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at $25^{\circ}C$ ambient temperature unless otherwise specified.

	SYMBOLS	GBL 005	GBL 01	GBL 02	GBL 04	GBL 06	GBL 08	GBL 10	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified output current at	$I_{(AV)}$	4.0							Amps
$T_C=50^{\circ}C$ (NOTE 1) $T_A=40^{\circ}C$ (NOTE 2)		3.0							
Peak forward surge current, single half sine-wave superimposed on rated load (JEDEC Method) $T_J=150^{\circ}C$	I _{FSM}	150.0							Amps
Rating for fusing ($t<8.3ms$)	I ² t	93.0							A ² sec
Maximum instantaneous forward drop per leg at 4.0 Amperes	V _F	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage per leg	I_R	5.0							μA
$T_A=25^{\circ}C$ $T_A=125^{\circ}C$		500.0							
Typical junction capacitance per leg (NOTE 3)	C _J	95.0			40.0				pF
Typical thermal resistance per leg (NOTE 1) (NOTE 2)	R _{θJA} R _{θJL}	22.0			3.5				°C/W
Operating junction storage and temperature range	T _J , T _{STG}	-55 to +150							°C

NOTES:

(1) Unit mounted on 3.0 x 3.0 x 0.11" thick (7.5 x 7.5 x 0.3cm) Al. plate

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

(3) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

RATINGS AND CHARACTERISTICS CURVES GBL005 THRU GBL10

