



GBL4005 THRU GBL410

Reverse Voltage - 50 to 1000 V olts Forward Current - 4.0 Amperes

GLASS PASSIVATED BRIDGE RECTIFIERS

Features

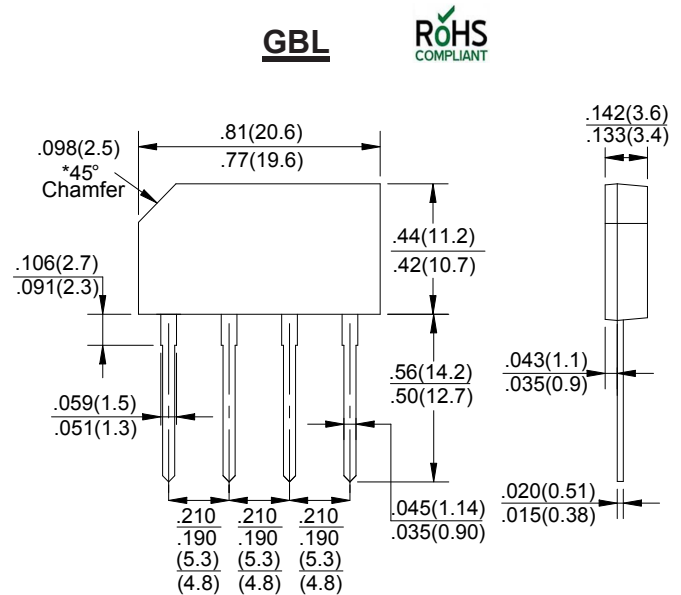
- ◆ Surge overload rating - 125 amperes peak
- ◆ Ideal for printed circuit boards
- ◆ Plastic material has underwriters laboratory flammability classification 94V-0

Mechanical Data

Case : JEDEC GBL Molded plastic body

Mounting Position : Any

Weight : 0.076 ounce , 2.15 grams



Dimensions in millimeters

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	MDD GBL4005	MDD GBL401	MDD GBL402	MDD GBL404	MDD GBL406	MDD GBL408	MDD GBL410	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward output rectified current at $T_A=50^{\circ}\text{C}$ (Note 1)	I_{AV}	4.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	125							A
Maximum instantaneous forward voltage drop per bridge element at 4.0A	V_F	1.1							V
Maximum DC reverse current $T_A=25^{\circ}\text{C}$ at rated DC blocking voltage $T_A=150^{\circ}\text{C}$	I_R	10							μA
		1.0							mA
Operating junction temperature range	T_J	-55 to +150							$^{\circ}\text{C}$
storage temperature range	T_{STG}	-55 to +150							$^{\circ}\text{C}$

Note:1.Mounting conditions,0.5" lead length maximum.



Ratings And Characteristic Curves

FIG.1-MAXIMUM NON-REPETITIVE SURGE CURRENT

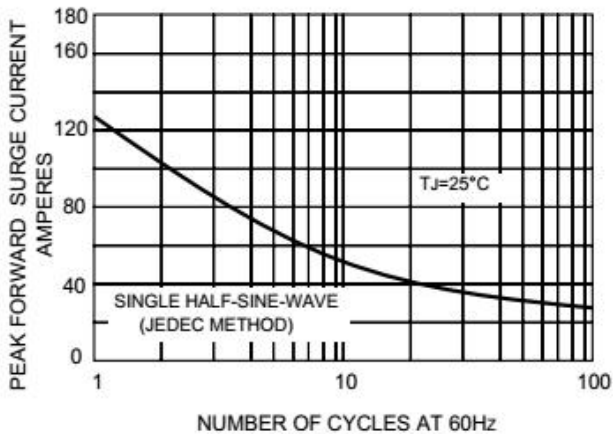


FIG.2-FORWARD DERATING CURRENT

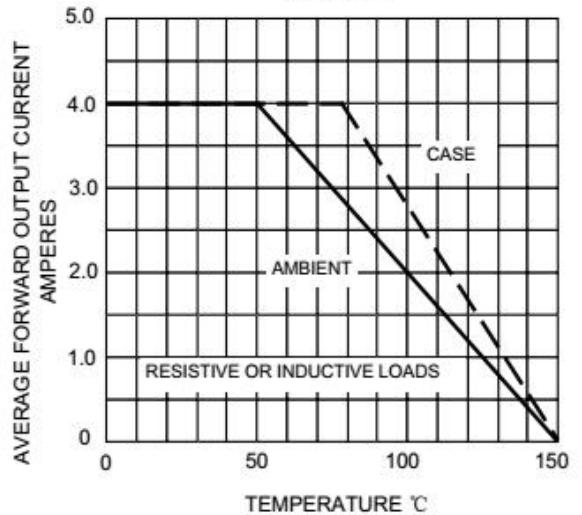


FIG.3-TYPICAL FORWARD CHARACTERISTICS

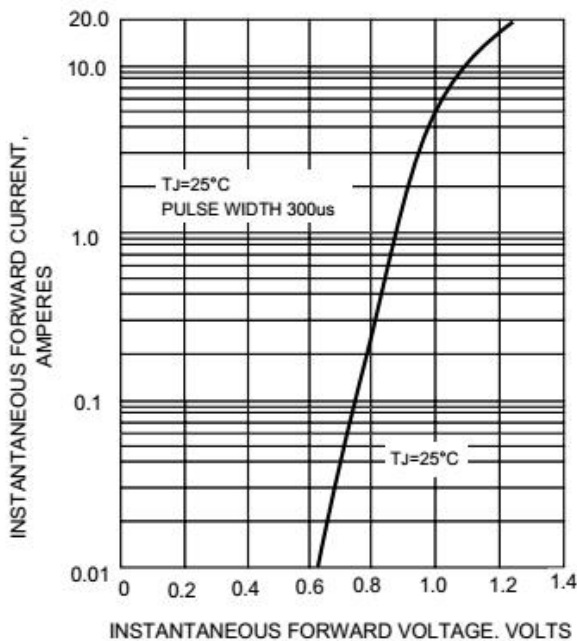
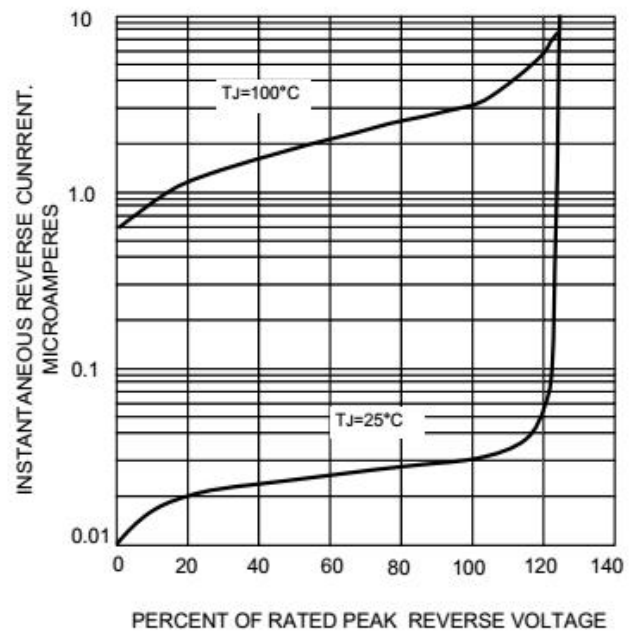


FIG.4-TYPICAL REVERSE CHARACTERISTICS



The curve above is for reference only.