GBL4005 THRU GBL410

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

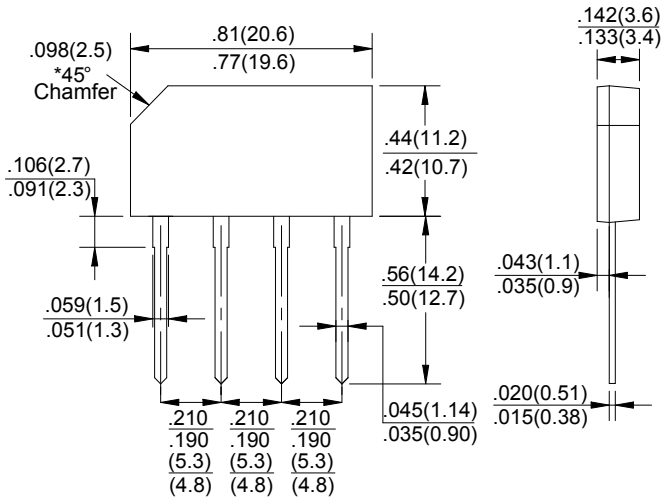
GLASS PASSIVATED BRIDGE RECTIFIERS

Features

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

GBL

RoHS COMPLIANT



Dimensions in milimeters

Mechanical Data

Case : JEDEC GBL Molded plastic body
Mounting Position: Any
Weight : 0.076 ounce , 2.15 grams

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unlss 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°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 birdge element at 4.0A	V_F	1.1							V
Maximum DC reverse current T_A=25°C at rated DC blocking voltage T_A=150°C	I_R	10							μA
		1.0							mA
Operating junction temperature range	T_J	-55 to +150							°C
storage temperature range	T_{STG}	-55 to +150							°C

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

Ratings And Characteristic Curves

FIG.1-MAXIMUM NON-REPETITIVE SURGE CURRENT

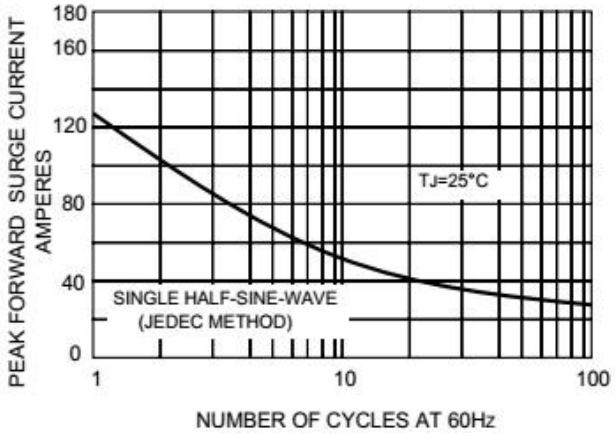


FIG.2-FORWARD DERATING CURRENT

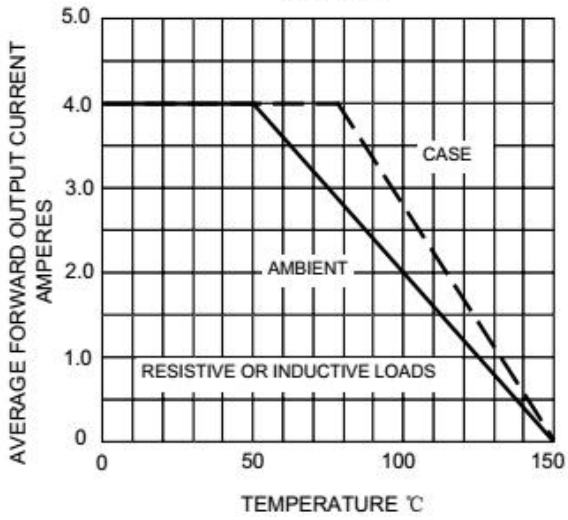


FIG.3-TYPICAL FORWARD CHARACTERISTICS

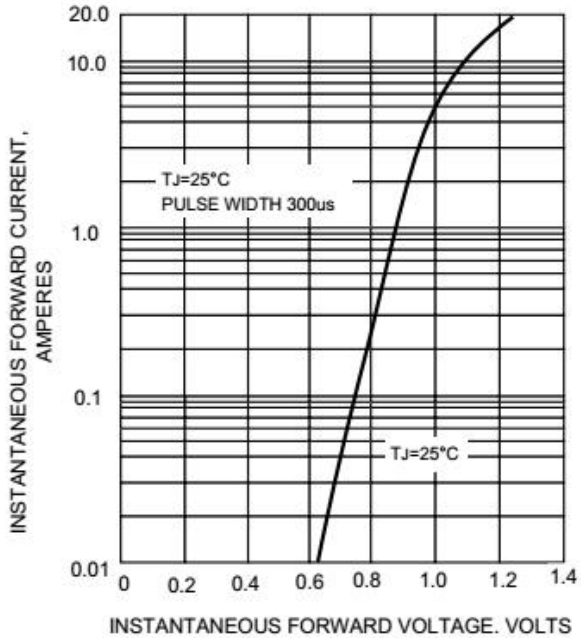
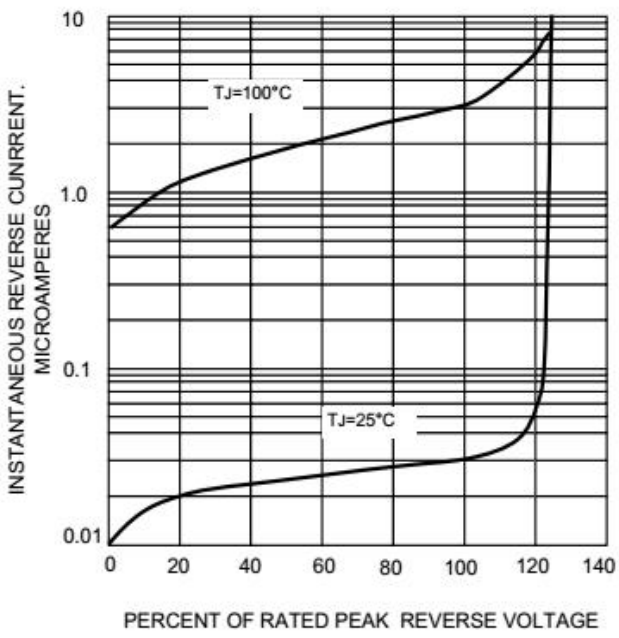


FIG.4-TYPICAL REVERSE CHARACTERISTICS



The curve above is for reference only.