

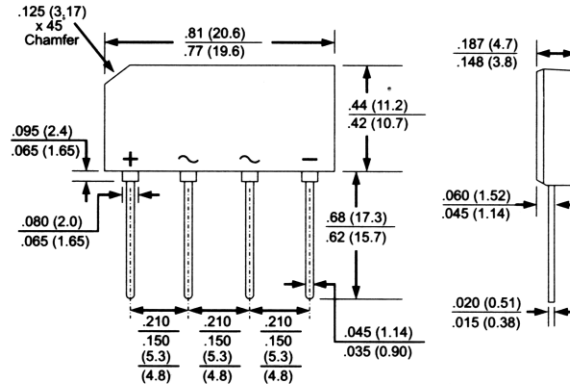


GBL005 thru GBL10

Glass Passivated Single-Phase Bridge Rectifiers
Voltage Range 50 to 1000 Volts Forward Current 4.0 Amperes

Features

- ◆ Surge overload rating - 150 Amperes peak
- ◆ Ideal for printed circuit boards
- ◆ Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Mounting Position: Any



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Parameter	Symbols	GBL005	GBL01	GBL02	GBL04	GBL06	GBL08	GBL10	Units
Maximum recurrent 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 $T_A=50^\circ\text{C}$ (Note 1)	$I_{F(AV)}$	4.0							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150.0							Amps
Max. instantaneous forward voltage drop per element at 4.0A	V_F	1.0							Volts
Maximum DC reverse current at rated DC blocking voltage per element	I_R	10.0							uA
		1.0							mA
Operating and storage temperature range	T_{J1}, T_{STG}	-55 to +150							°C

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

RATINGS AND CHARACTERISTIC CURVES

($T_A = 25^\circ\text{C}$ unless otherwise noted)

FIG. 1 - MAXIMUM NON-REPETITIVE SURGE CURRENT

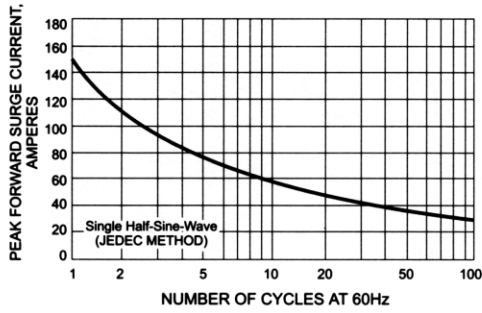


FIG. 2 - FORWARD DERATING CURRENT

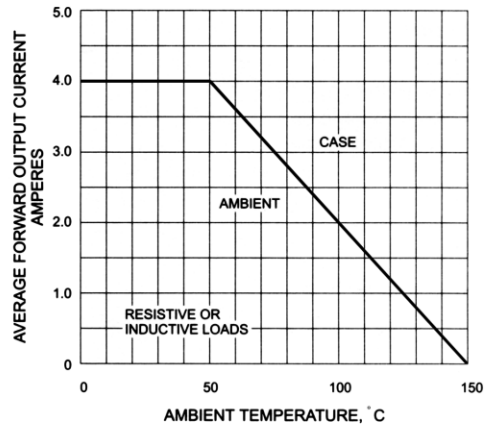


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS

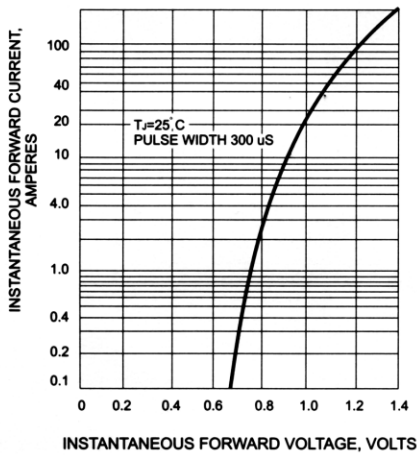


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

