

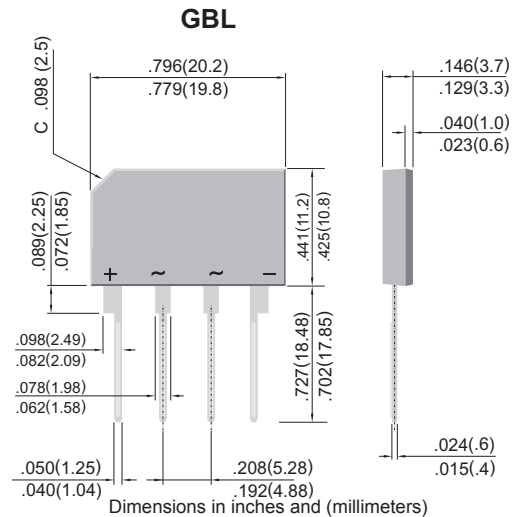
SINGLE PHASE 4.0 AMP BRIDGE RECTIFIERS

Features:

- ◇ Glass passivated chip junction
- ◇ Ideal for printed circuit board
- ◇ High case dielectric strength
- ◇ Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- ◇ Typical IR less than 0.1μA
- ◇ High surge current capability
- ◇ High temperature soldering guaranteed: 260°C / 10 seconds / .375", (9.5mm) lead lengths.

Mechanical Data:

- ◇ Case: Molded plastic body.
- ◇ Terminals: Plated leads solderable per MIL-STD-750, Method 2026.
- ◇ Weight: 0.06 ounce, 1.7 grams
- ◇ Mounting position: Any



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%

Type Number	Symbol	GBL 401	GBL 402	GBL 403	GBL 404	GBL 406	GBL 408	GBL 410	Units
Maximum Recurrent 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 Rectified Output Current @ 50°C Ambient	$I_{(AV)}$	4.0							A
Peak One Surge Current Overload Current	I_{FSM}	150							A
Maximum Instantaneous Forward Voltage @ 2.0A	V_F	1.00							V
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$	I_R	5.0 500							uA uA
Typical Thermal Resistance Per Leg (Note) (Note)	$R_{\theta JA}$ $R_{\theta JL}$	32 13							°C/W
Typical Junction Capacitance Per Leg at 4.0V, 1MHz	C_j	25							pF
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

Note: Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B with 0.47 x 0.47" (12 x 12mm) Copper Pads.

RATING AND CHARACTERISTIC CURVES (GBL401 THRU GBL410)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

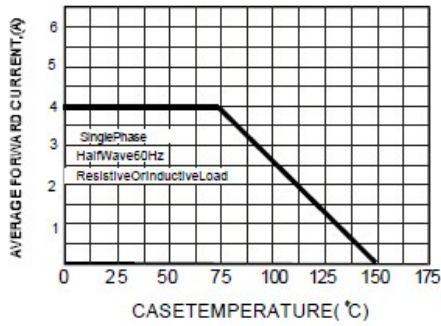


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

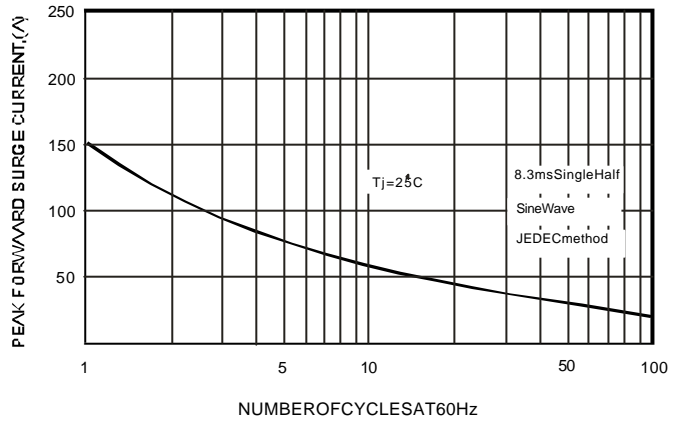


FIG.3-TYPICAL FORWARD CHARACTERISTICS

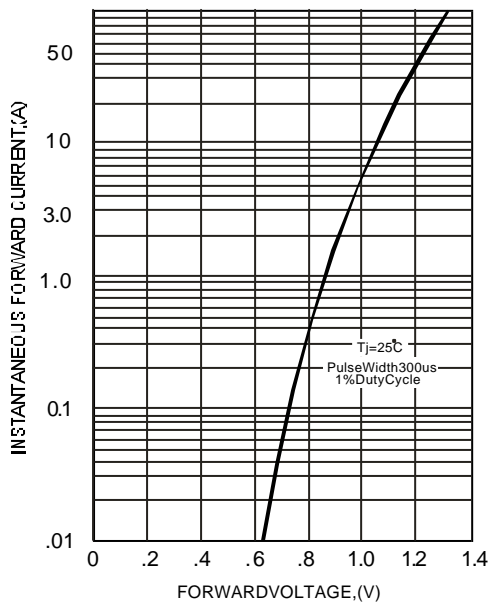


FIG.4-TYPICAL REVERSE CHARACTERISTICS

