GBL401 THRU GBL410

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

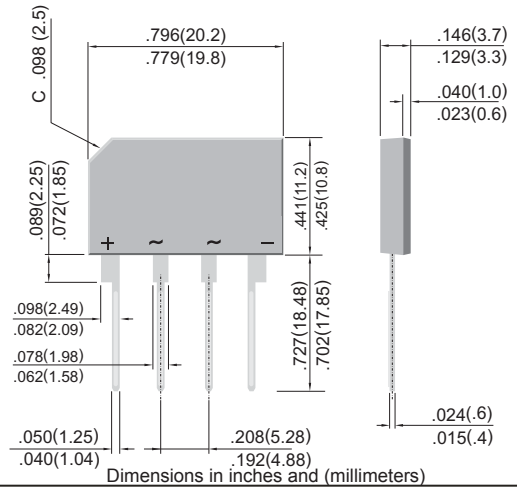
VOLTAGE RANGE

50to1000Volts

CURRENT

4.0Ampere

GBL



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ 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℃ 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℃ at Rated DC Blocking Voltage @ T_A=100℃	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	Cj	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.

RATINGANDCHARACTERISTICCURVES (GBL401 THRU GBL410)

FIG.1-TYPICALFORWARDCURRENT DERATINGCURVE

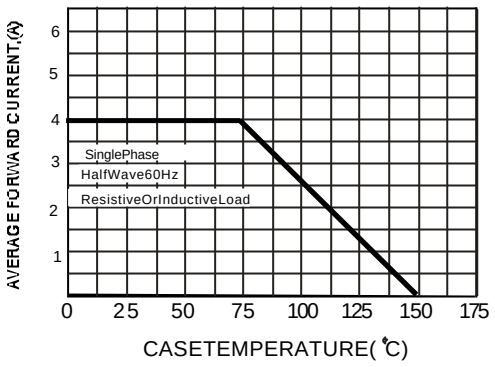


FIG.2-MAXIMUMNON-REPETITIVEFORWARD SURGECURRENT

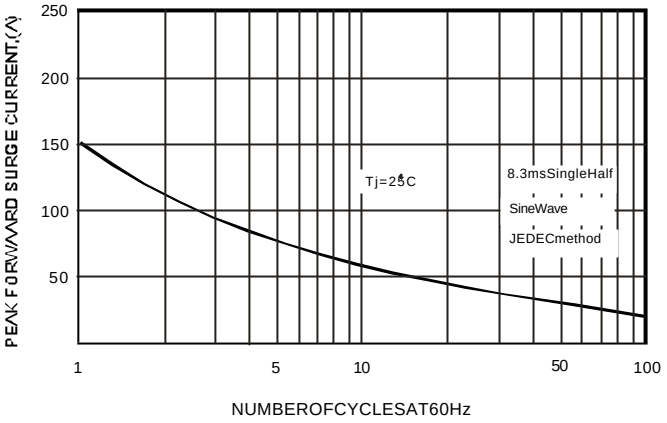


FIG.3-TYPICALFORWARD CHARACTERISTICS

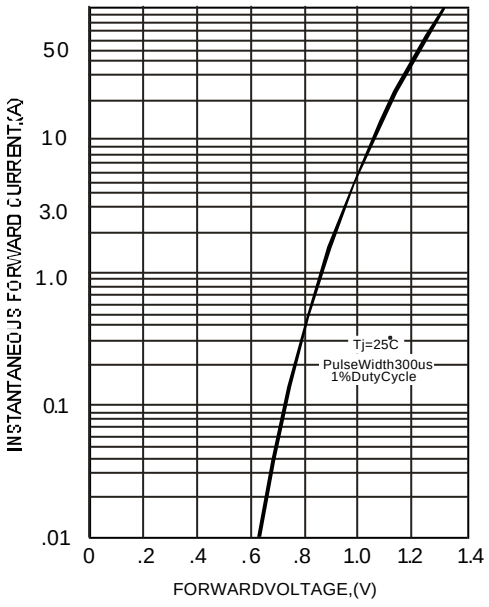


FIG.4-TYPICALREVERSE CHARACTERISTICS