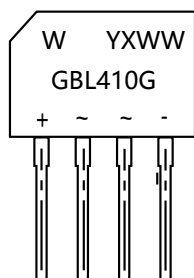


Glass Passivated Bridge Rectifiers



PINNING

PIN	DESCRIPTION
1	Input Pin (~)
2	Input Pin (~)
3	Output Anode (+)
4	Output Cathode (-)

Features

- Compliant with RoHS Provisions
- Low forward voltage, high forward current
- High forward surge current capability
- High heat-conducting performance
- Thermal welding performance:
260 °C/10sec

Applications

- Switching Power Supply
- Home Appliances, Office Devices
- Industrial Auto-equipments

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

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

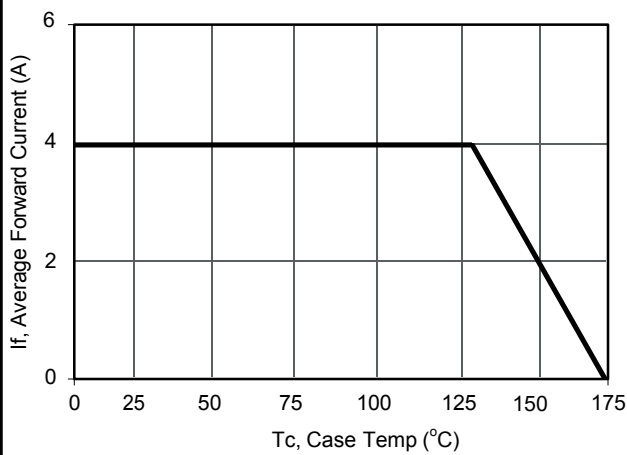
Parameter	Symbols	GBL410G	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	1000	V
Maximum RMS voltage	VRMS	700	V
Maximum DC Blocking Voltage	VDC	1000	V
Average Rectified Output Current	Io	4.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	160	A
I ² t rating for fusing (1ms< t < 8.3ms)	I ² t	106	A ² S
Maximum Forward Voltage at 2.0 A	VF	1.1	V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	IR	5 500	μA
Typical Junction Capacitance (Note1)	Cj	35	pF
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +175	°C
Typical thermal resistance (Note 2)	RthJC RthJA	4.2 10.0	°C/W

Note: 1. Measured at 1MHz and applied reverse voltage of 4 VDC.

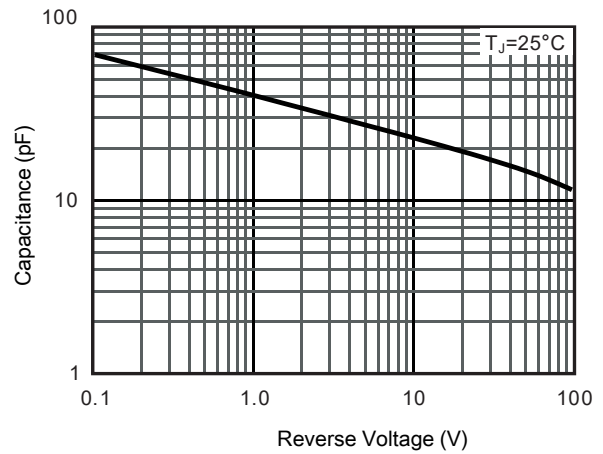
2. Thermal resistance junction to case, lead and ambient in accordance with JESD-51.

Unit mounted on glass-epoxy substrate with 1oz/ft² 20x20 mm copper pad per pin with heatsink

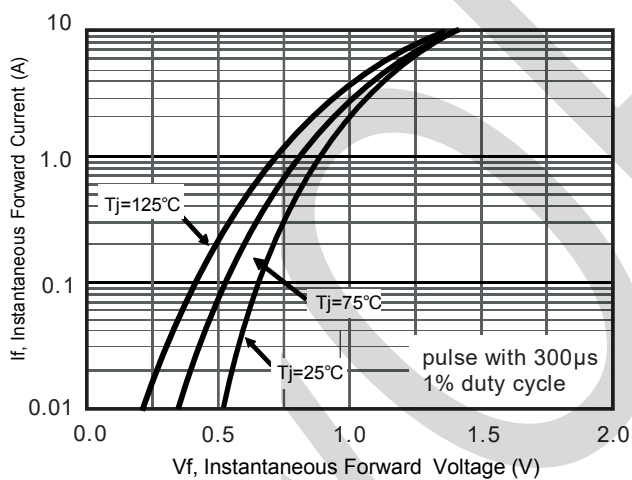
RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



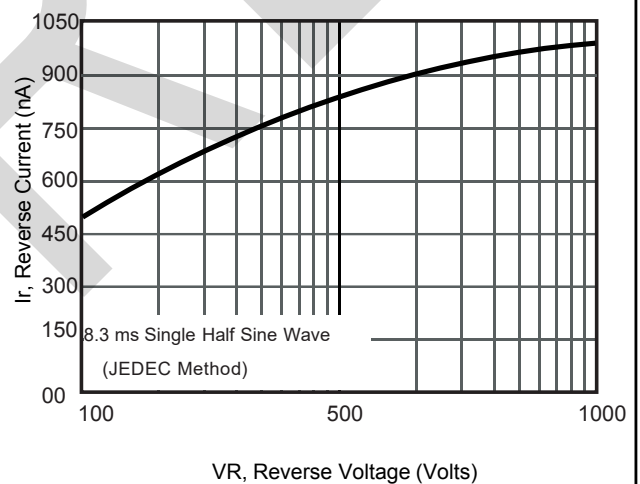
Current Derating, Case



Typical Junction Capacitance



Typical Forward Voltage



Typical Reverse Current

Technical drawing of a mechanical part, showing a top view and a side view. The dimensions are given in inches and millimeters.

Top View Dimensions:

- Overall width: .799 (20.3) / .776 (19.7)
- Overall height: .445 (11.3) / .421 (10.7)
- Distance between hole centers: .551 (14.0) / .512 (13.0)
- Distance from left edge to first hole center: .205 (5.2) / .189 (4.8)
- Distance from last hole center to right edge: .205 (5.2) / .189 (4.8)
- Distance from left edge to first hole center (bottom): .063 (1.6) / .047 (1.2)
- Distance from first hole center to second hole center (bottom): .043 (1.1) / .035 (0.9)
- Distance from second hole center to third hole center (bottom): .106 (2.7) / .091 (2.3)
- Distance from third hole center to fourth hole center (bottom): .047 (1.2) / .031 (0.8)
- Distance from fourth hole center to right edge (bottom): .024 (0.6) / .016 (0.4)

Side View Dimensions:

- Overall height: .146 (3.7) / .130 (3.3)

Dimensions in inches and (millimeters)