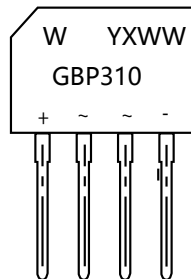


Glass Passivated Bridge Rectifiers



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 %.

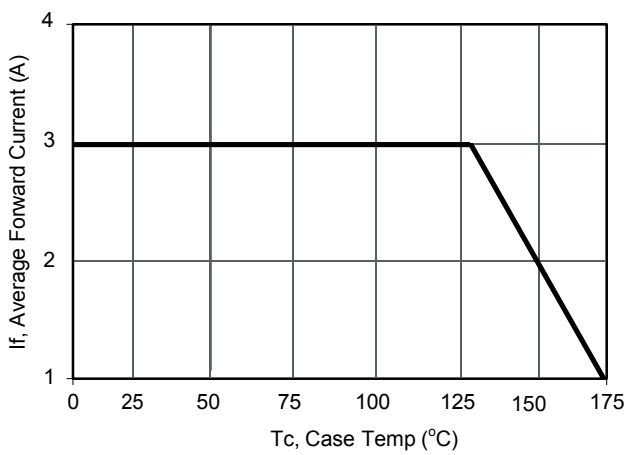
Parameter	Symbols	GBP310	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	1000	V
Maximum RMS voltage	VRMS	700	V
Maximum DC Blocking Voltage	VDC	1000	V
Average Rectified Output Current	I_o	3.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	90	A
$I^2 t$ rating for fusing (1ms < t < 8.3ms)	$I^2 t$	33.6	A ² S
Maximum Forward Voltage at 1.5 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	25	pF
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +175	°C
Typical thermal resistance (Note 2)	RthJA RthJL	30 11	°C/W

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

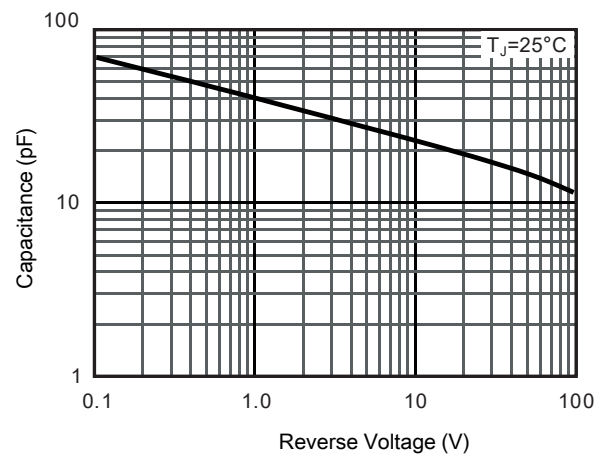
2. Thermal resistance junction to case, lead and ambient in accordance with JESD-51.

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

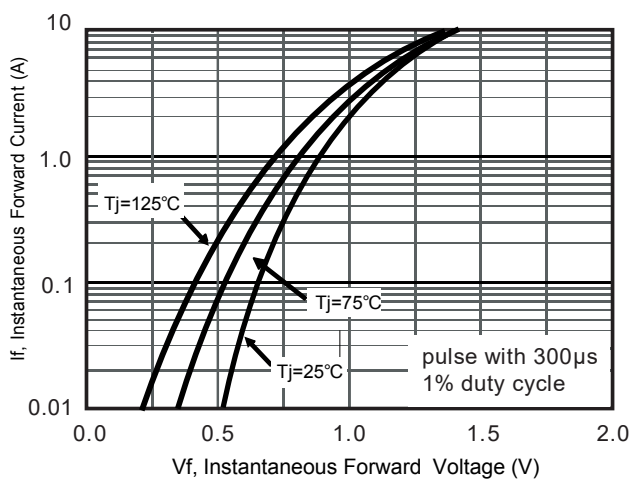
RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



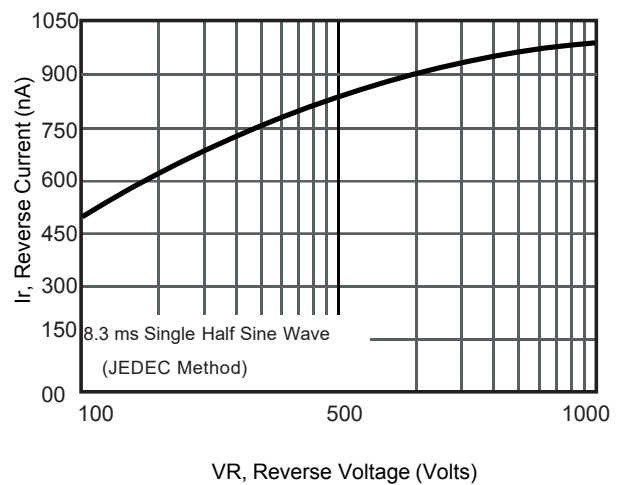
Current Derating, Case



Typical Junction Capacitance

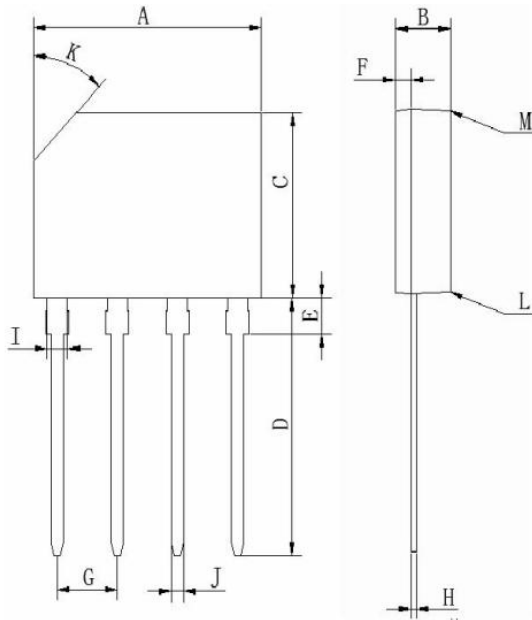


Typical Forward Voltage



Typical Reverse Current

PACKAGE OUTLINE DIMENSIONS



<i>GBP Unit:mm</i>		
<i>DIM</i>	<i>MIN</i>	<i>MAX</i>
<i>A</i>	14.25	14.75
<i>B</i>	3.35	3.65
<i>C</i>	10.2	10.6
<i>D</i>	14.3	14.8
<i>E</i>	1.8	2.2
<i>F</i>	0.8	1.1
<i>G</i>	3.56	4.06
<i>H</i>	0.3	0.55
<i>I</i>	1.22	1.42
<i>J</i>	0.76	0.86
<i>K</i>	2.7X45°(Typ.)	
<i>L</i>	-	3°
<i>M</i>	-	3°
<i>All Dimensions in millimeter</i>		