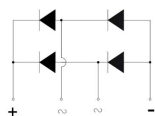


Glass Passivated Bridge Rectifiers

GBP410-S



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	GBP410-S	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	120	A
I ² t rating for fusing (1ms < t < 8.3ms)	I ² t	60	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
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 JEDEC-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)

Fig.1 Current Derating, Case

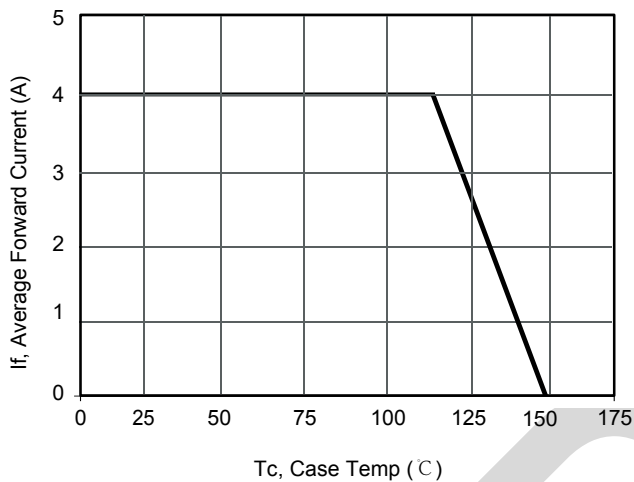


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

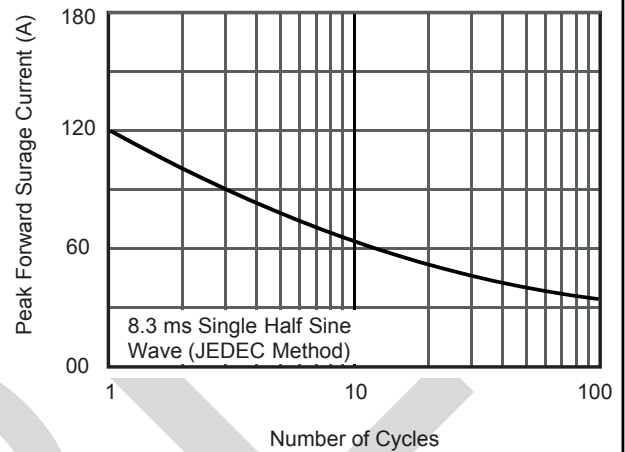


Fig.3 Typical Forward Voltage

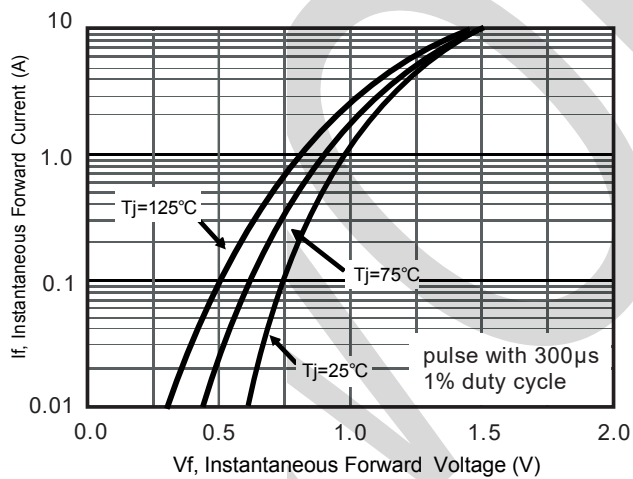
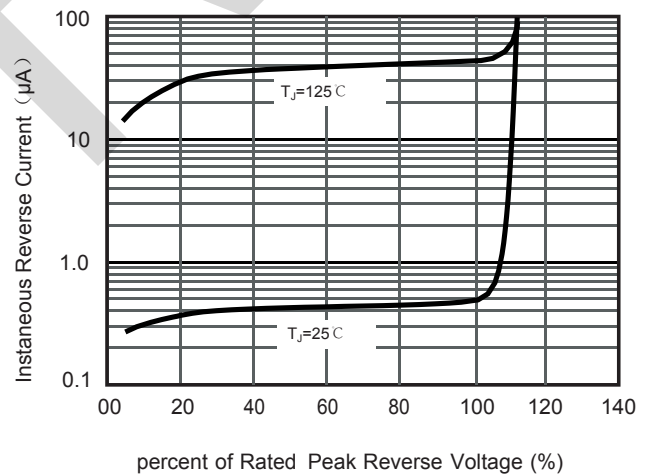
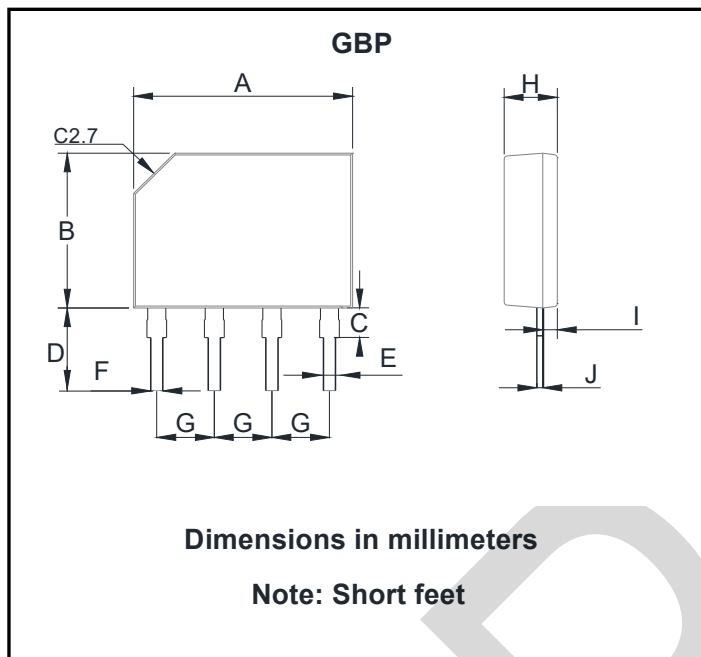


Fig.4 Typical Reverse Characteristics

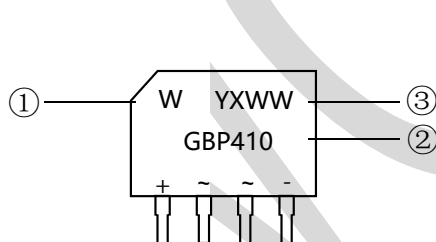


PACKAGE OUTLINE DIMENSIONS



GBP		
Dim	Min	Max
A	14.25	14.75
B	10.10	10.90
C	1.80	2.20
D	5.0	6.2
E	1.22	1.42
F	0.76	0.86
G	3.70	3.90
H	3.0	3.5
I	0.80	1.10
J	0.35	0.55

Marking Information



① W : Company's trademark

② Product model : GBP410

③ PDC information:

Y X WW

WW: Week code(01 to 53)

X: Internal identification code

Y: Year code(ex:0=2020)