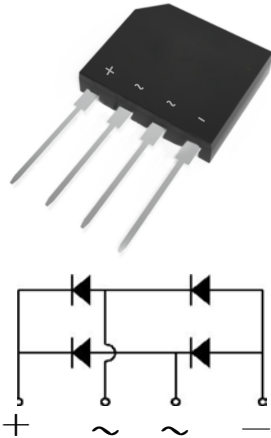


Glass Passivated Bridge Rectifiers



Features

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

Applications

- Ç Switching Power Supply
- Ç Home Appliances, Office Devices
- Ç 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	GBP810	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	8.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	170	A
I ² t rating for fusing (1ms < t < 8.3ms)	I ² t	120	A ² S
Maximum Forward Voltage at 4.0 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	25	pF
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150	°C
Typical thermal resistance (Note 2)	RthJA RthJC	30 3.5	°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)

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

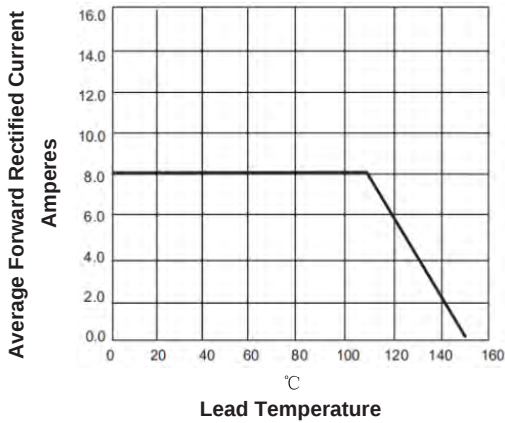


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

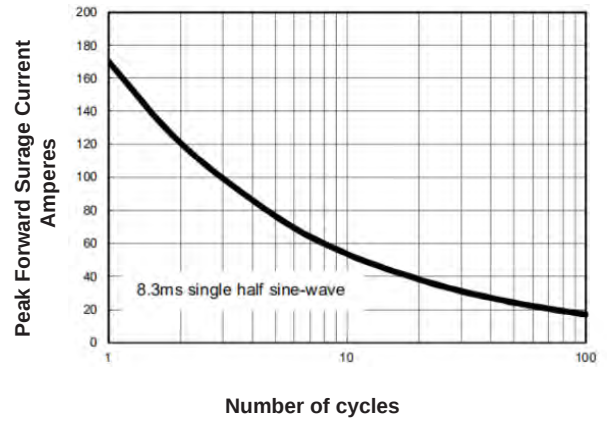


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

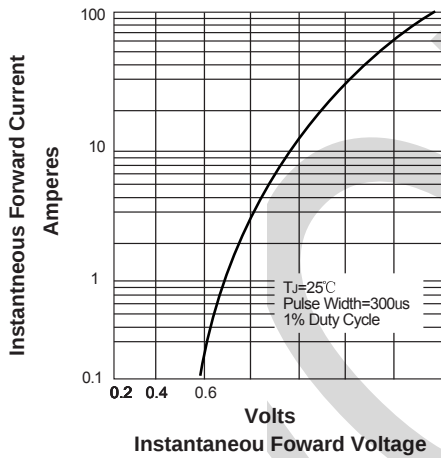
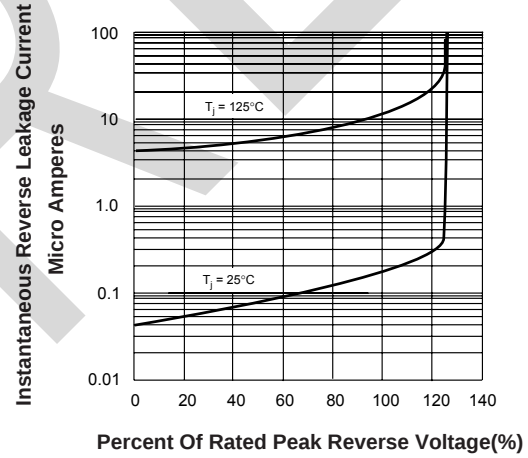
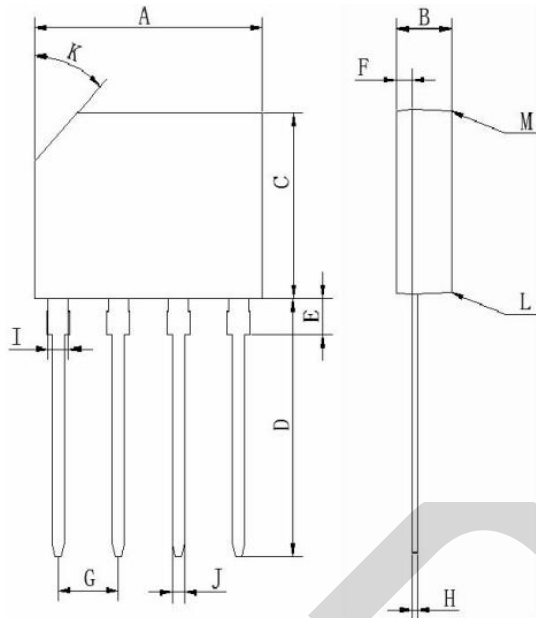


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



PACKAGE OUTLINE DIMENSIONS



GBP		
Dim	Min	Max
A	14.25	14.75
B	3.35	3.65
C	10.2	10.6
D	14.3	14.8
E	1.8	2.2
F	0.8	1.1
G	3.56	4.06
H	0.3	0.55
I	1.22	1.42
J	0.76	0.86

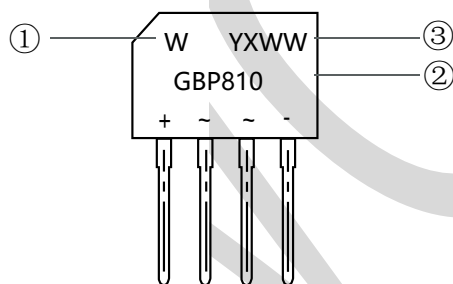
K: 27X45°(Typ)

L-M: 3°

Dimensions in millimeters

Note: Short feet

Marking Information



①W : Company's trademark

②Product model : GBP810

③PDC information:

Y X WW

WW:Week code(01 to 53)

X:Internal identification code

Y:Year code(ex:0=2020)