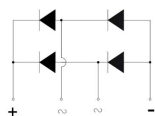


Low VF Bridge Rectifiers

GBP406L



Features

- Glass Passivated Chip Junction
- Reverse Voltage - 600 V
- Forward Current - 4.0 A
- High Surge Current Capability
- Designed For Surface Mount Application

Benefits

- Case: GBP
- Terminals: Solderable Per MIL-STD-750

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	GBP406L	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	600	V
Maximum RMS voltage	VRMS	420	V
Maximum DC Blocking Voltage	VDC	600	V
Average Rectified Output Current	I _o	4.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	120	A
I ² t rating for fusing (1ms< t < 8.3ms)	I ² t	59.7	A ² S
Maximum Forward Voltage at 2.0 A	VF	0.95	V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	IR	5 100	μA
Typical thermal resistance (Note1)	RthJC	10	°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150	°C

Note: 1.Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

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

Fig.1 Current Derating, Case

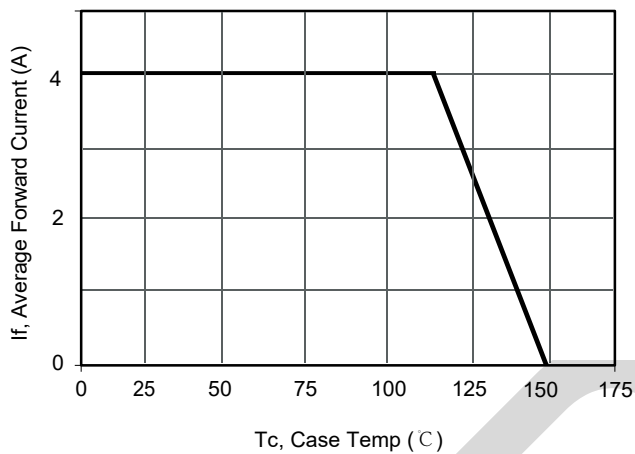


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

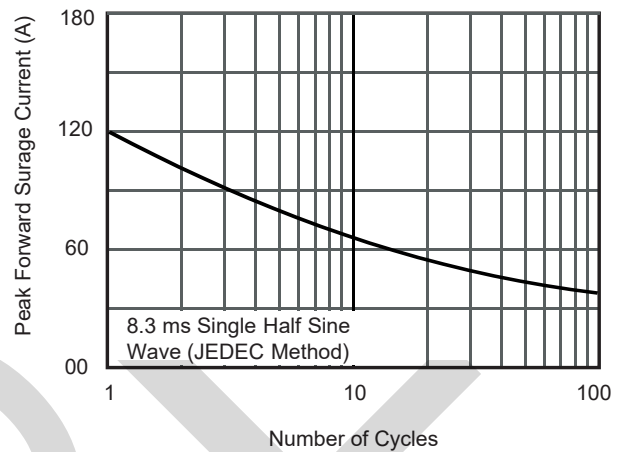


Fig.3 Typical Forward Voltage

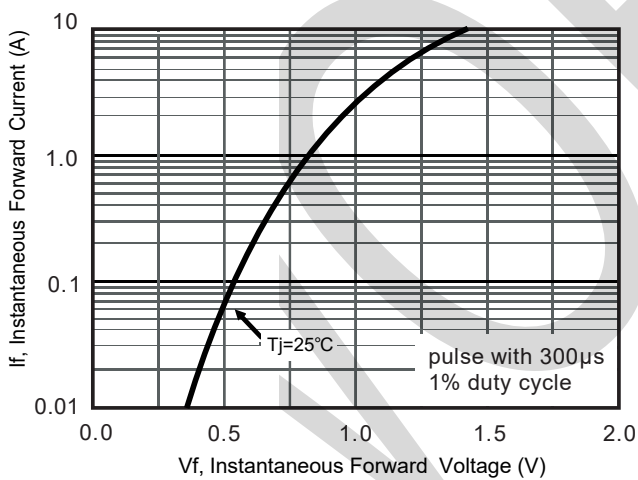
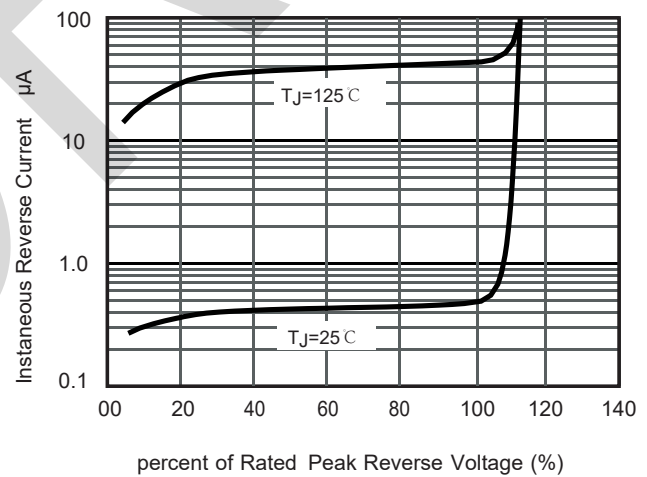
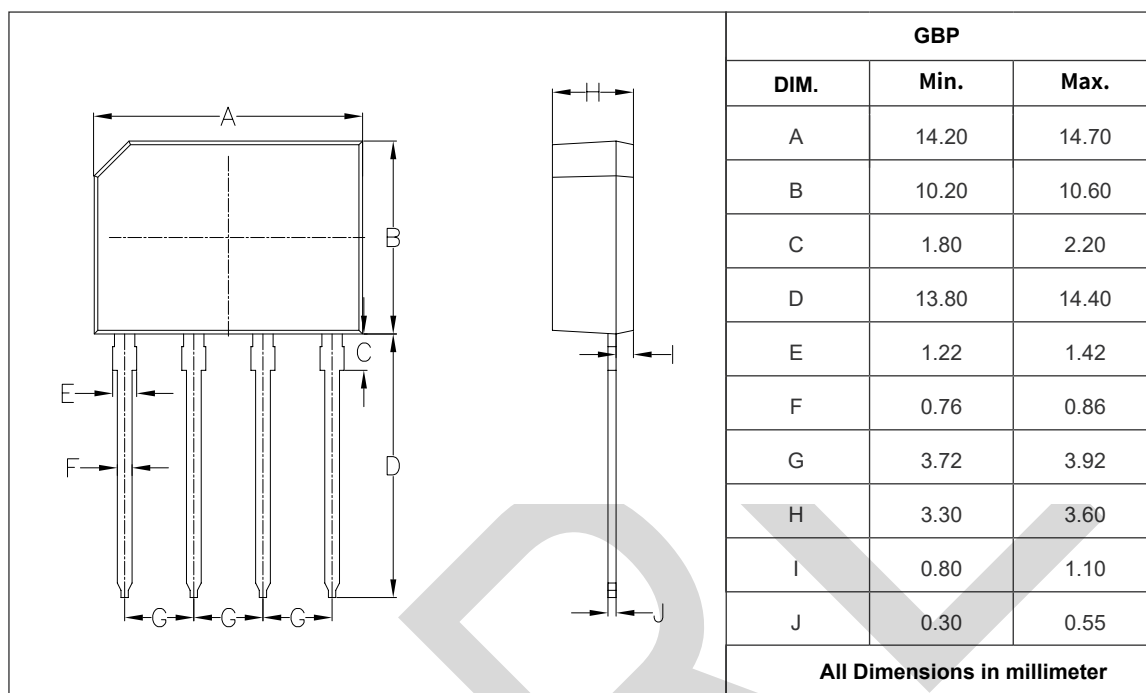


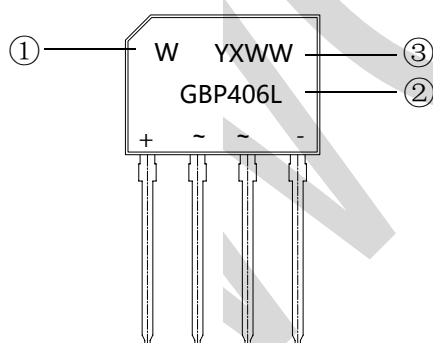
Fig.4 Typical Reverse Characteristics



PACKAGE OUTLINE DIMENSIONS



Marking Information



① W : Company's trademark

② Product model : GBP406L

③ PDC information :

Y X WW

WW: Week code(01 to 53)

X: Internal identification code

Y: Year code(ex:0=2020)