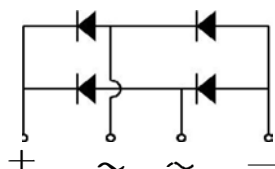
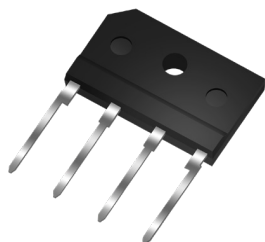


Glass Passivated Bridge Rectifiers

KBJ



Features

- Reverse Voltage - 1000 V
- Forward Current - 4.0 A
- Compliant With RoHS Provisions
- High Forward Surge Current Capability

Applications

- Case: KBJ
- 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	KBJ410	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	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 < 8.3 ms)	I ² t	59.7	A ² S
Maximum Forward Voltage at 2.0A	V _F	1.1	V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	I _R	5 500	μA
Typical Thermal Resistance (Note1)	R _{θJA}	26	°C/W
	R _{θJC}	6.0	
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150	°C

Note: 1. Unit Mounted on 8.2 x 8.2 x 3.0 cm Cu Plate Heatsink.

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

Fig.1 Current Derating, Case

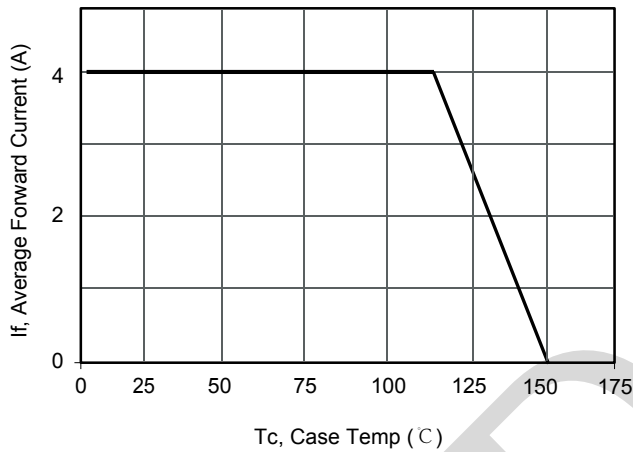


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

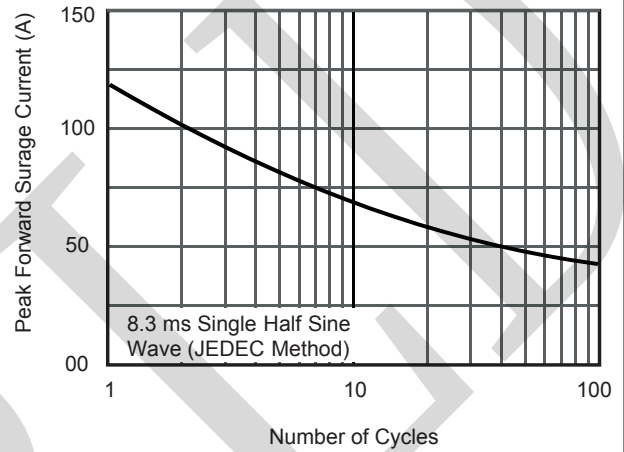


Fig.3 Typical Forward Voltage

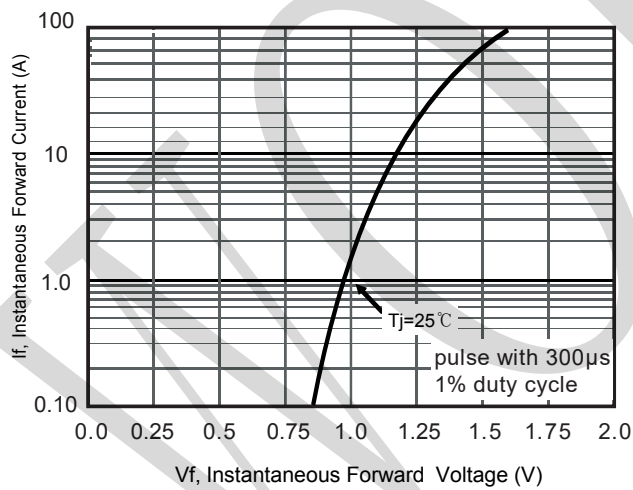
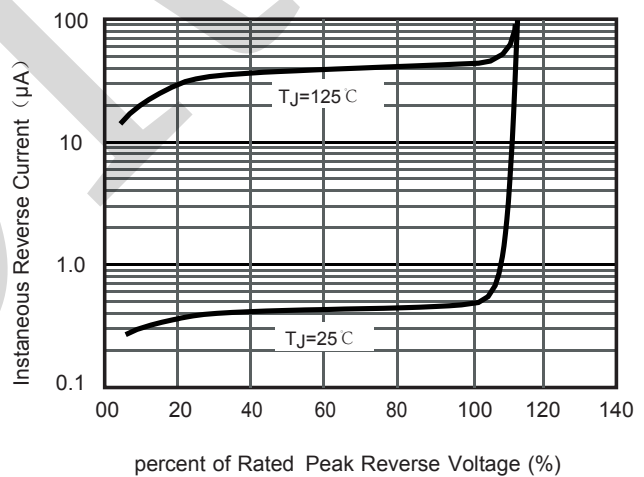
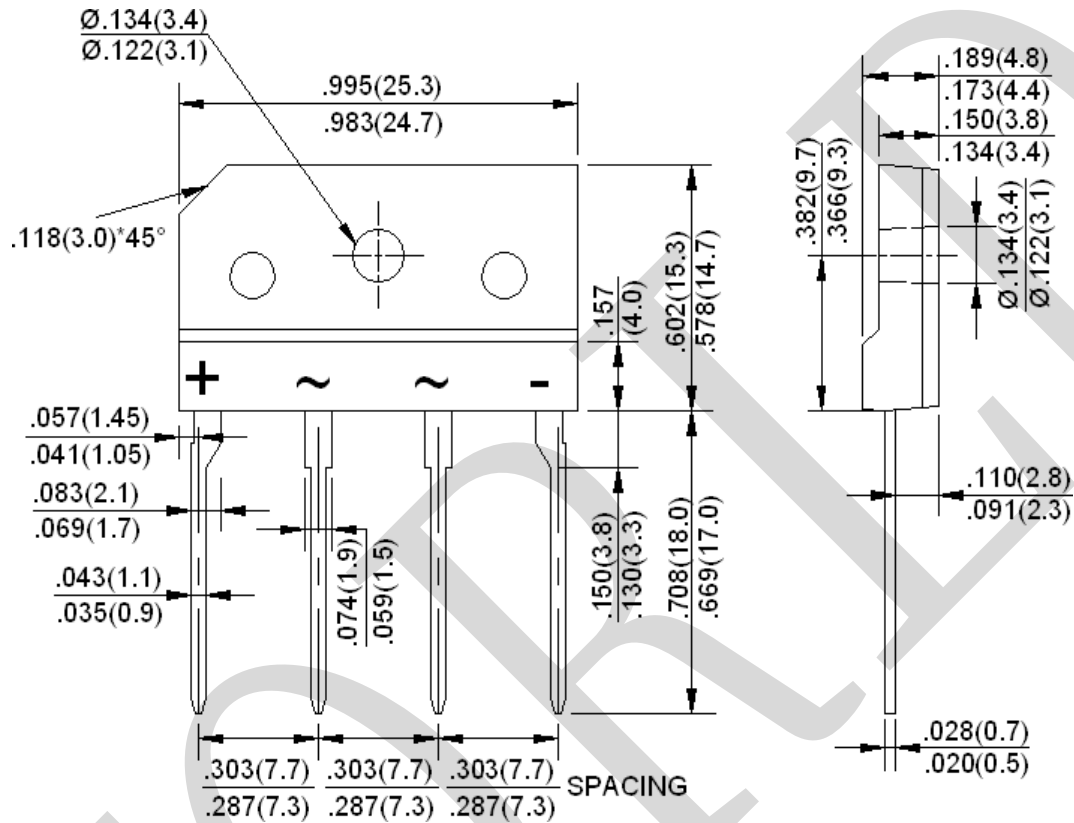


Fig.4 Typical Reverse Characteristics

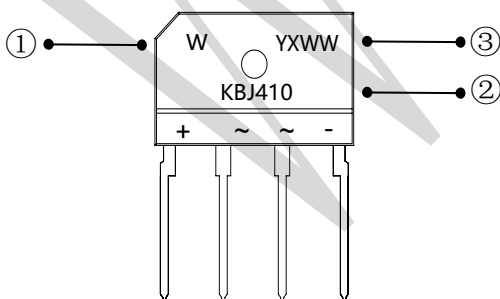


PACKAGE OUTLINE DIMENSIONS

Note:unit In(mm)



Marking Information



①W : Company's trademark

②Product model : KBJ410

③PDC information:

Y X WW

WW:Week code(01 to 53)

X:Internal identification code

Y:Year code(ex:0=2020)

Revision History

No	Revise Contents	Revise Date	Revision No
1	New formulation	25-Dec-2024	1.0
2			
3			
4			
5			
6			
7			