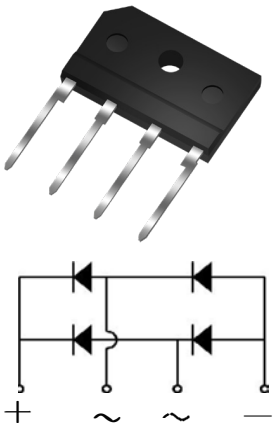
KBJ1006

25-Dec-2024

Glass Passivated Bridge Rectifiers

KBJ



Features

- Reverse Voltage - 600 V
- Forward Current - 10.0 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	KBJ1006	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS voltage	V_{RMS}	560	V
Maximum DC Blocking Voltage	V_{DC}	600	V
Average Rectified Output Current	I_o	10.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	200	A
I^2t rating for fusing (1ms< t < 8.3 ms)	I^2t	166	A^2S
Maximum Forward Voltage at 5.0A	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）	$R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$	8.0 1.8 1.5	°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	°C

Note: 1. Unit Mounted on 100 x 100 x 1.6 mm Cu Plate Heatsink.

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

Fig.1 Current Derating, Case

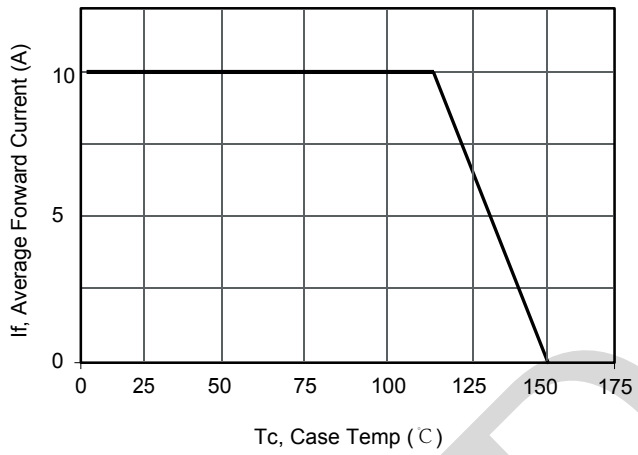


Fig.2 Maximum Non-Repetitive Peak Forward Surage Current

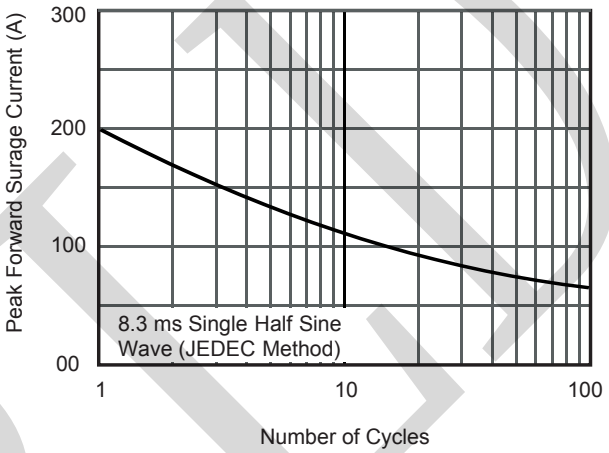


Fig.3 Typical Forward Voltage

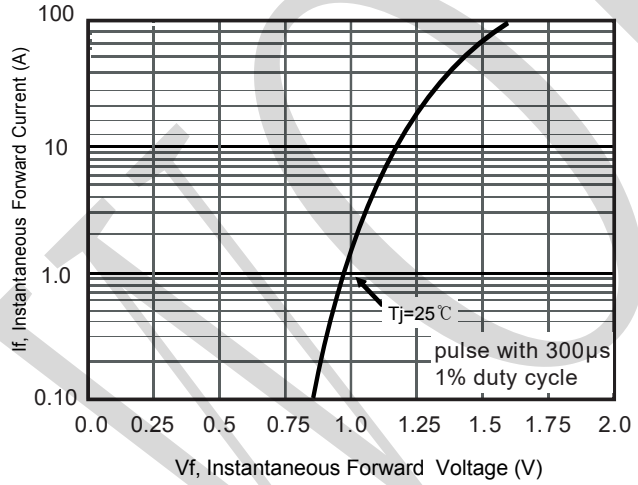
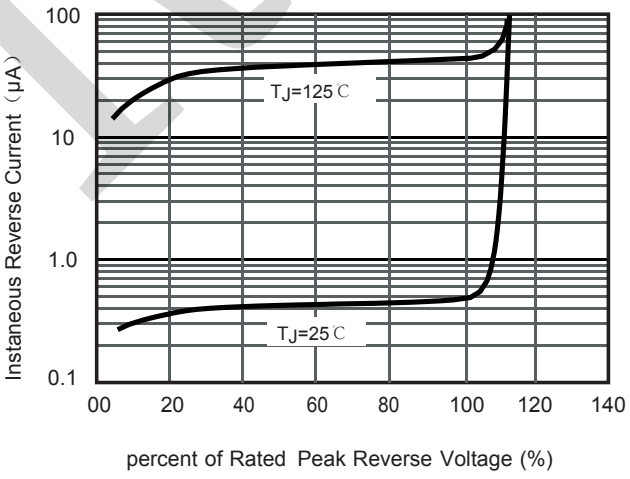
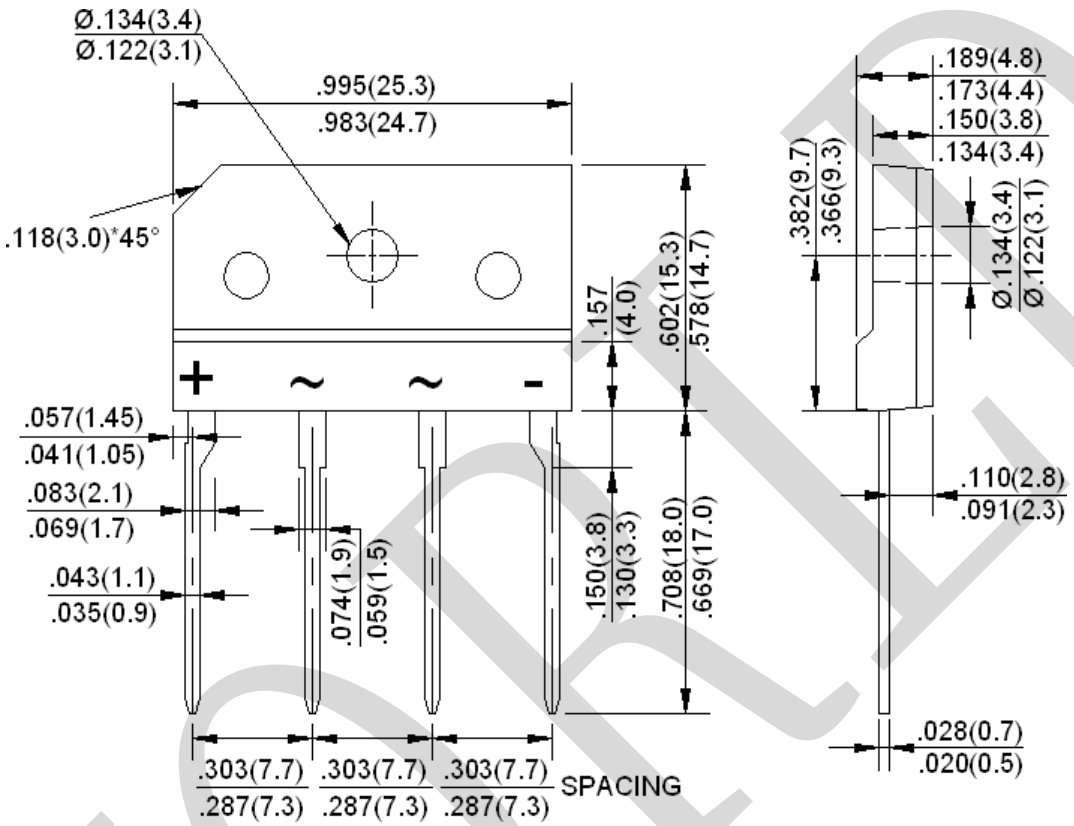


Fig.4 Typical Reverse Characteristics

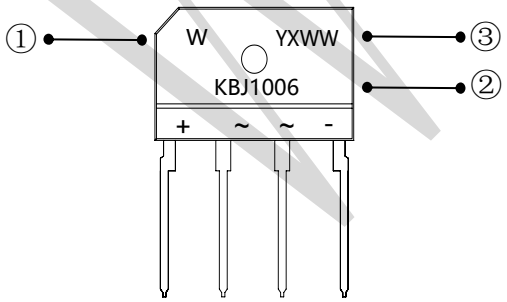


PACKAGE OUTLINE DIMENSIONS

Note:unit In(mm)



Marking Information



①W : Company's trademark

②Product model : KBJ1006

③PDC information：

Y X WW

WW:Week code(01 to 53)

X:Internal identification code

Y:Year code(ex:0=2020)