

Glass Passivated Bridge Rectifiers



PINNING

PIN	DESCRIPTION
1	Input Pin (~)
2	Input Pin (~)
3	Output Anode (+)
4	Output Cathode (-)

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 %.

Features

- Reverse Voltage - 1000 V
- Forward Current - 6.0 A
- Compliant with RoHS Provisions
- High forward surge current capability

Applications

- Switching Power Supply
- Home Appliances, Office Devices
- Industrial Auto-equipments

Parameter	Symbols	KBJ606	KBJ608	KBJ610	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	800	1000	V
Maximum RMS voltage	V_{RMS}	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	600	800	800	V
Average Rectified Output Current	I_o	6.0			A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	150			A
Rating for Fusing (1ms ≤ t < 8.3ms, T _j = 25°C)	I^2t	93			I^2t
Type Forward Voltage at 3.0 A	V_F	1.05			V
A Maximum DC Reverse Current at Rated DC Blocking Voltage @T _A =25 °C @T _A =125 °C	I_R	10 500			μA
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150			°C
Mounting torque	TOR	0.8 Recommended torque:0.5			N.m

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

2. Recommended heatsink size: 8.2"8.2"3.0cm

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

Fig.1: Current Derating Curve

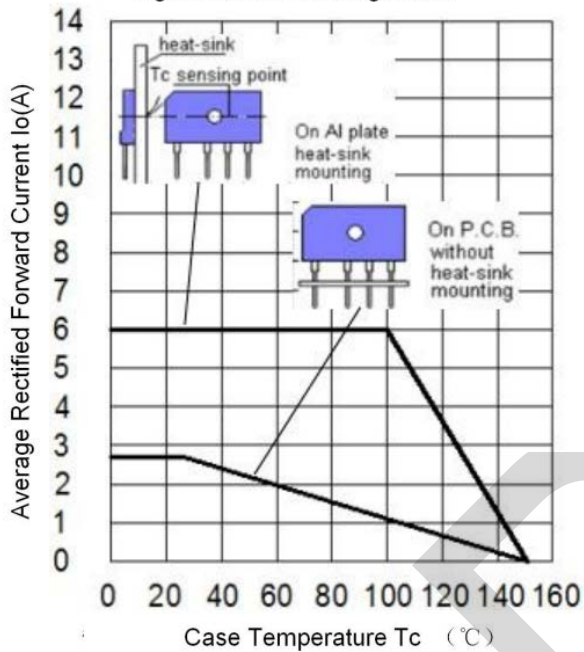


Fig.2 Typical Reverse Characteristics

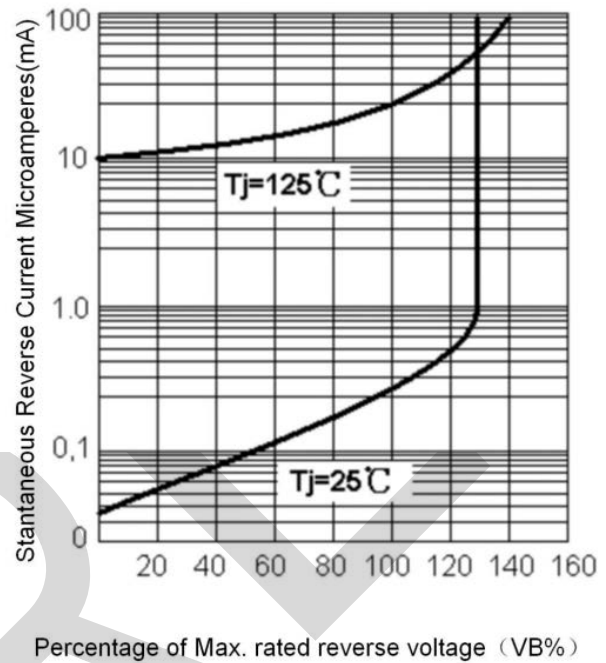


Fig.3: Max. Surge Current

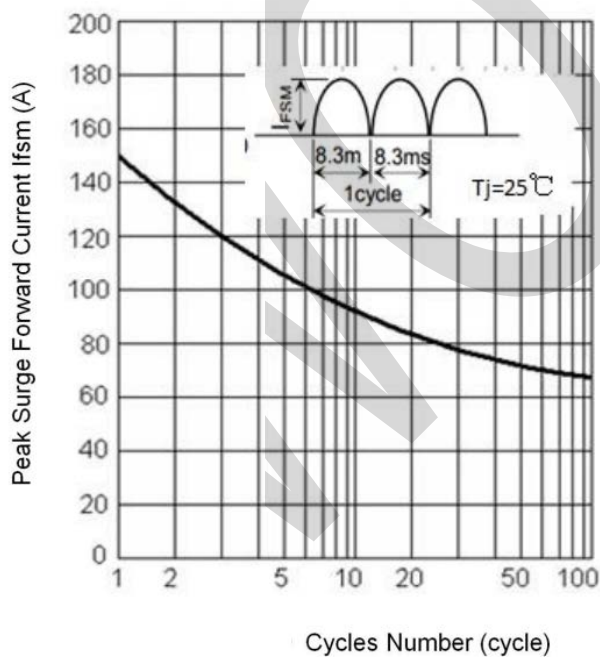
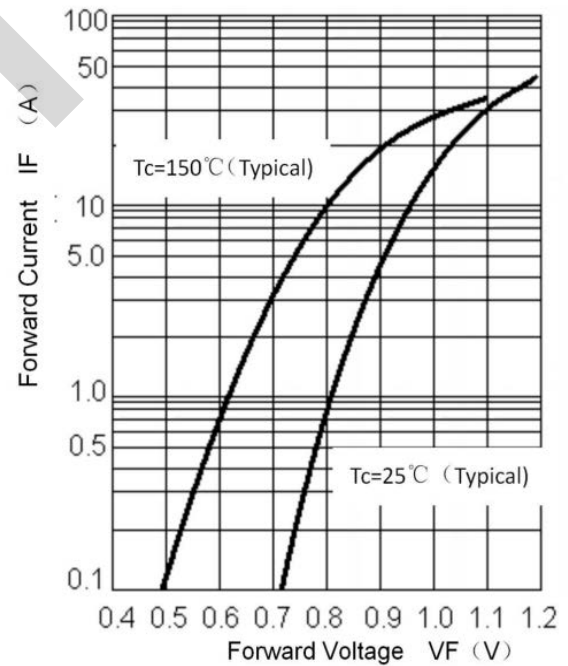


Fig.4: Rated Forward Features



PACKAGE OUTLINE DIMENSIONS

KBJ

