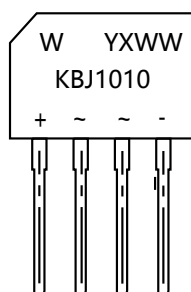


Glass Passivated Bridge Rectifiers



PINNING

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

Features

- Reverse Voltage - 1000 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.

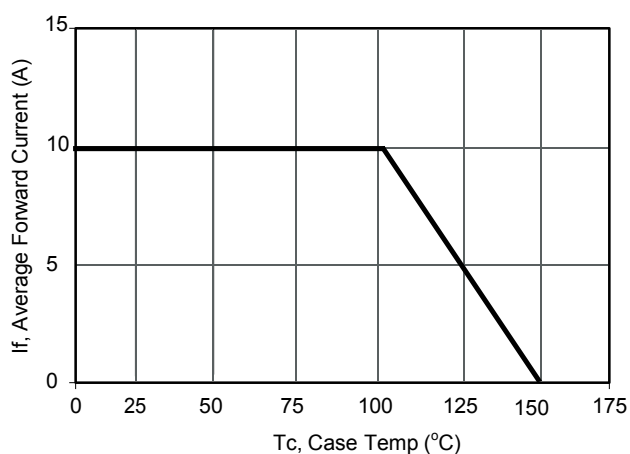
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	KBJ1010	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	10.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	200	A
I ² t rating for fusing (1ms< t < 8.3 ms)	I ² t	166	A ² S
Maximum Forward Voltage at 5.0A	VF	1.05	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	70	pF
Typical Thermal Resistance (Note2)	RθJA	8.0	°C/W
	RθJC	1.8	
	RθJL	1.5	
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150	°C

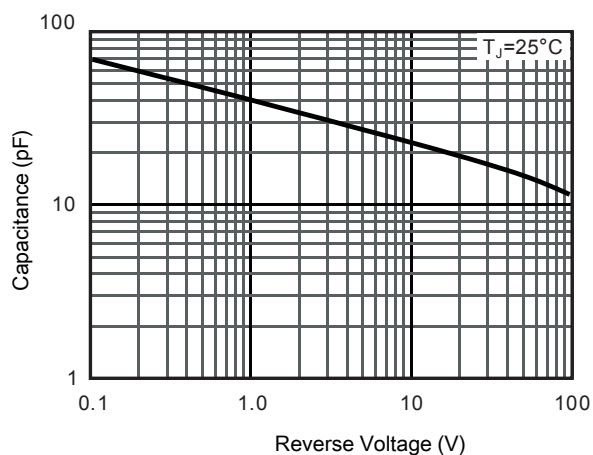
Note: 1. Measured at 1MHz and applied reverse voltage of 4 VDC.

2. Unit Mounted on 100 x 100 x 1.6 mm Cu Plate Heatsink.

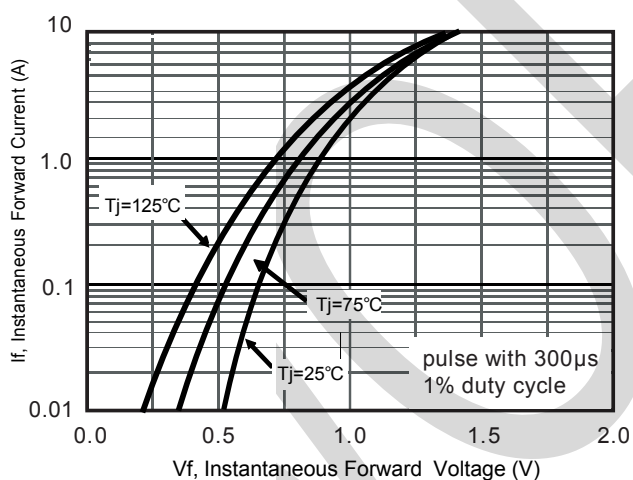
RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



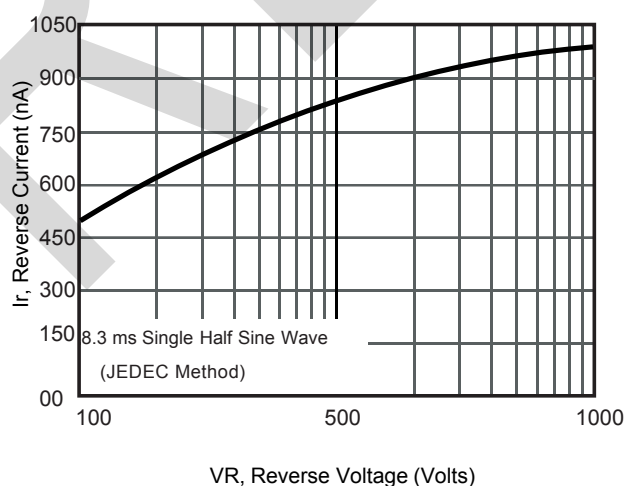
Current Derating, Case



Typical Junction Capacitance



Typical Forward Voltage



Typical Reverse Current

PACKAGE OUTLINE DIMENSIONS

Note: unit In(mm)

