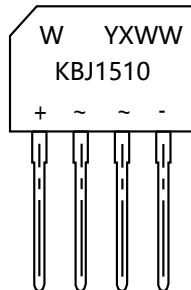


Glass Passivated Bridge Rectifiers



PINNING

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

Features

- Reverse Voltage - 1000 V
- Forward Current - 15.0 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	KBJ1510	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	15.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	250	A
I ² t rating for fusing (1ms< t < 8.3 ms)	I ² t	259.3	A ² S
Maximum Forward Voltage at 7.5A	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 Junction Capacitance (Note1)	C _j	70	pF
Typical Thermal Resistance (Note2)	R _{θJA}	10.0	°C/W
	R _{θJC}	2.0	
	R _{θJL}	1.5	
Operating and Storage Temperature Range	T _j , T _{stg}	-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)

Fig. 1 - Forward Current Derating Curve

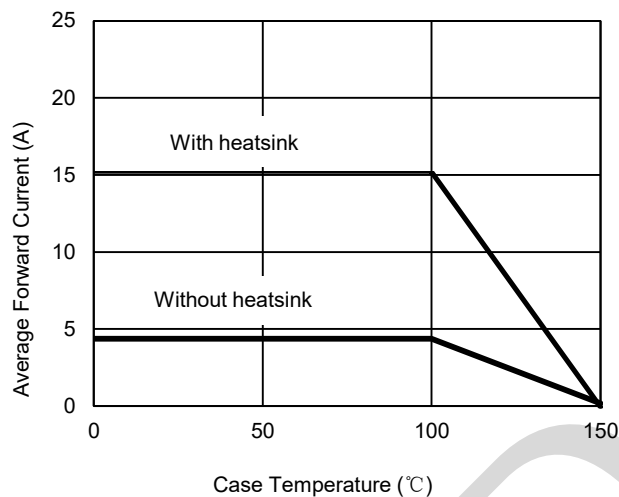


Fig. 2 - Maximum Non-Repetitive Surge Current

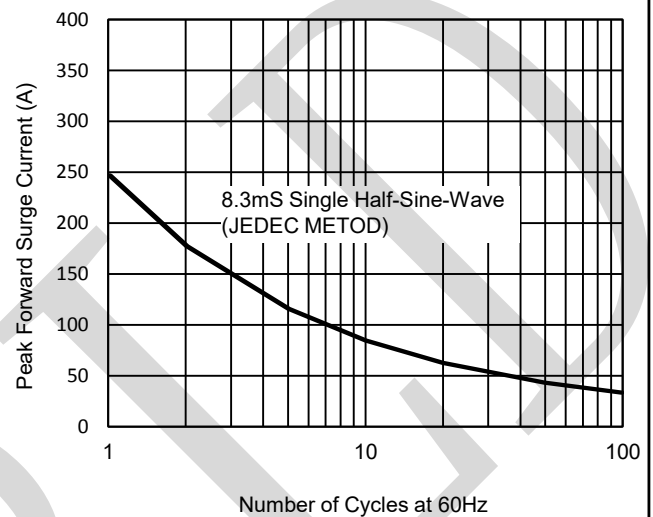


Fig. 3 - Typical Reverse Characteristics

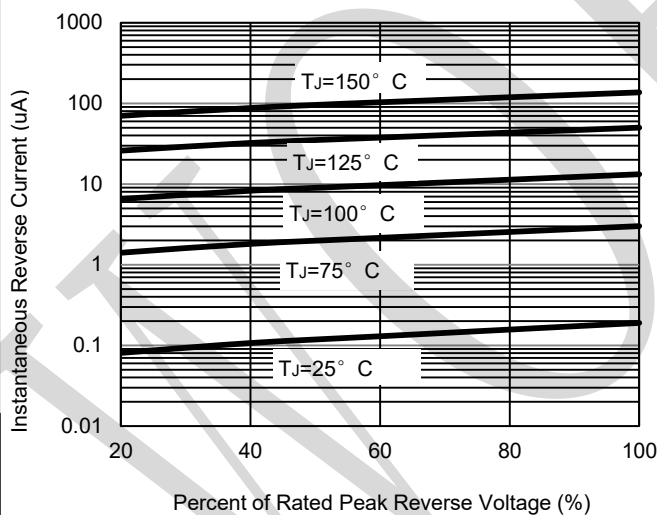
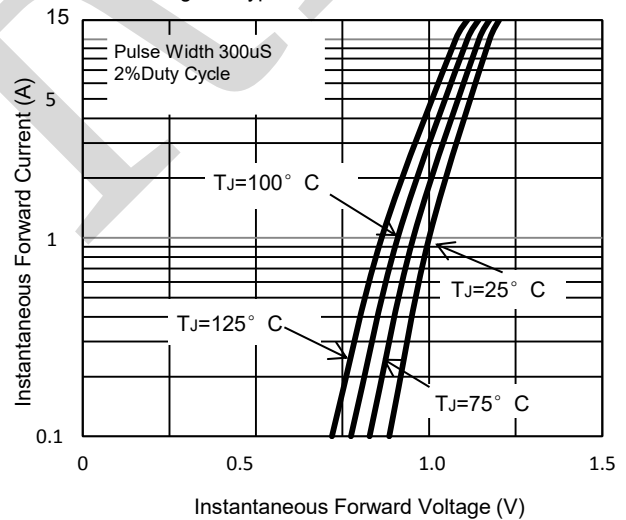
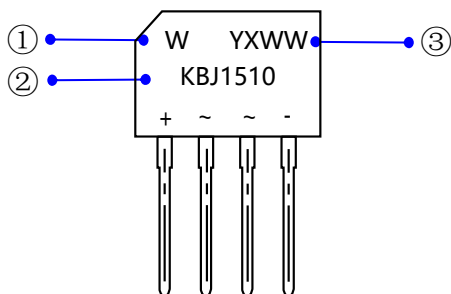


Fig. 4 - Typical Forward Characteristics



[illegible]

Marking Information



W : Company's trademark

Y Product model : KBJ1510

Y PDC information:

Y X WW

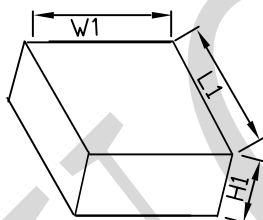
WW:Week code(01 to 53)

X:Internal identification code

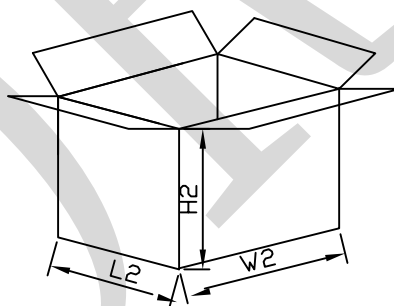
Y:Year code(ex:0=2020)

Packaging Information

1.Inside Box



2.Outside Box



Packaging Information

NO	UNIT	Inside Box			Outside Box		
Size	mm	L1	W1	H1	L2	W2	H2
		250	140	35	300	270	265
QTY	PCS	250PCS/carton			3,000PCS/carton, 12 boxes in total		
Note	Tolerance ≤20mm,±3mm; 21-100mm,±5mm; 101-500mm,±10mm						