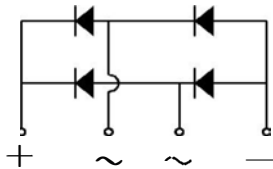
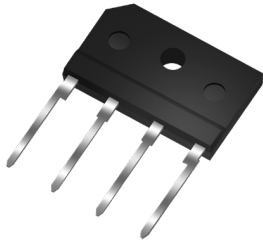


Ultrasoft Recovery Bridge

KBJ



Features

- Glass Passivated Chip Junction
- Reverse Voltage - 1000 V
- Forward Current - 15A
- High Surge Current Capability
- Designed For Surface Mount Application

Benefits

- Case:KBJ
- Terminals: Solderable Per MIL-STD-750

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	WRKBJ1510	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
Reverse Recovery Time. IF=0.5A,IR=1A,IRR=0.25A	T _{rr}	10	us
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	240	A
I ² t rating for fusing (1ms< t < 10ms)	I ² t	288	A ² S
Maximum Forward Voltage at 7.5A	V _F	1.0	V
Maximum DC Reverse Current @TA=25 ºC at Rated DC Blocking Voltage @TA=125 ºC	I _R	5 100	µ A
Junction to ambient, without heatsink ^①	R _{θJA}	26	°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150	°C

Note: 1. Recommended heatsink size: 8.2*8.2*3.8cm

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

Fig.1 Current Derating, Case

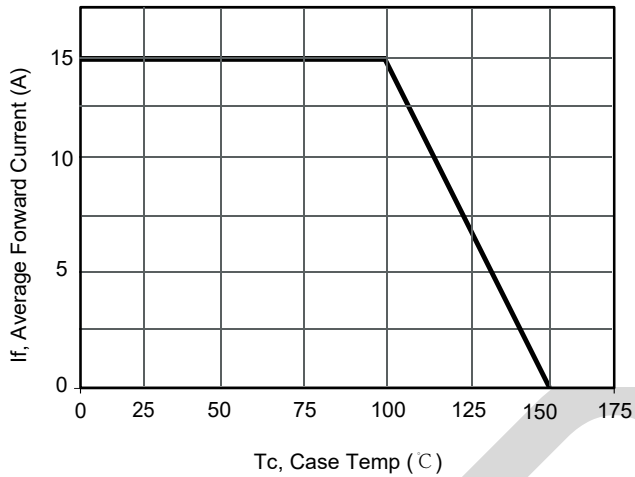


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

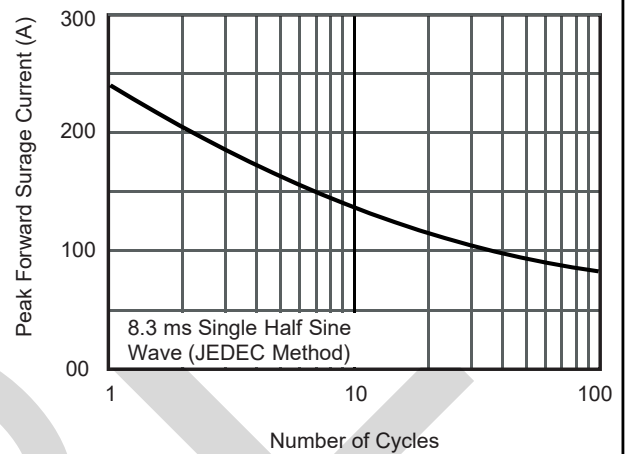


Fig.3 Typical Forward Voltage

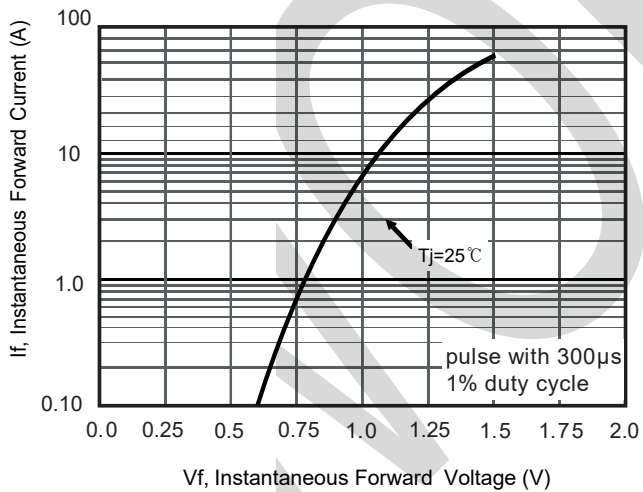
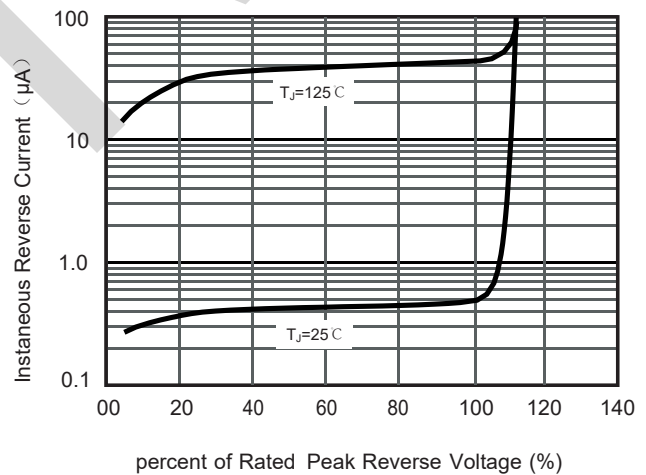
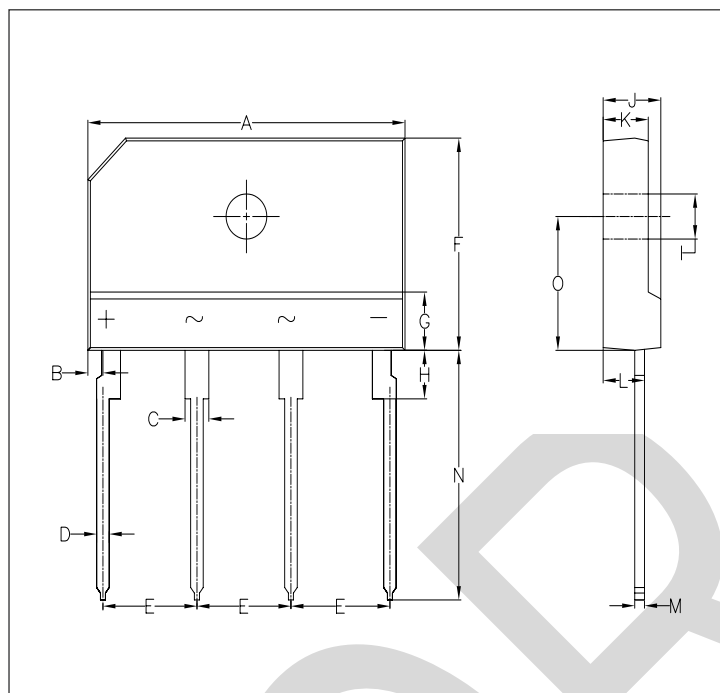


Fig.4 Typical Reverse Characteristics



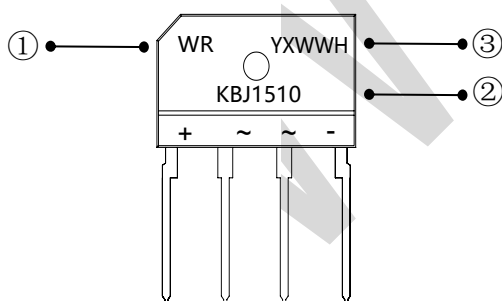
PACKAGE OUTLINE DIMENSIONS

KBJ



Symbol	Millimeters	
	Min.	Max.
A	24.70	25.30
B	1.05	1.45
C	1.70	2.10
D	0.90	1.10
E	7.30	7.70
F	14.70	15.30
G	3.80	4.20
H	3.30	3.70
I	3.10	3.40
J	4.40	4.80
K	3.40	3.80
L	3.20	3.40
M	0.60	0.80
N	17.00	18.00
O	9.50	10.10

Marking Information



①WR : Company's trademark

②Product model : KBJ1510

③PDC information:

Y X WW H
 Y:Year code(ex:0=2020)
 X:Internal identification code
 WW:Week code(01 to 53)
 H:Halogen-free