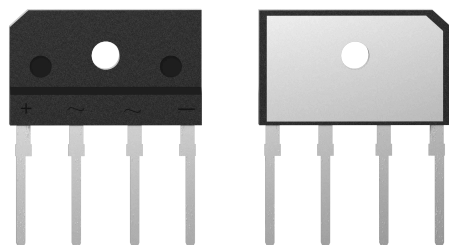
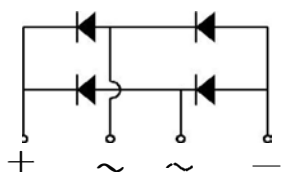


Glass Passivated Bridge Rectifiers

KBJ



Backboard with heat dissipation



Features

- Glass Passivated Chip Junction
- Reverse Voltage - 1000 V
- Forward Current - 25A
- High Surge Current Capability
- Designed For Surface Mount Application
- Self-contained heat dissipation device

Mechanical Data

- Case: Molded plastic case
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Marked on Body
- Mounting Position: Any

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	KBJ2510C	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	25.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	330	A
I ² t rating for fusing (1ms< t < 8.3 ms)	I ² t	452	A ² S
Maximum Forward Voltage at 12.5A	VF	1.1	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	10.0	°C/W
	RθJC	2.0	
	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)

Fig.1 Current Derating, Case

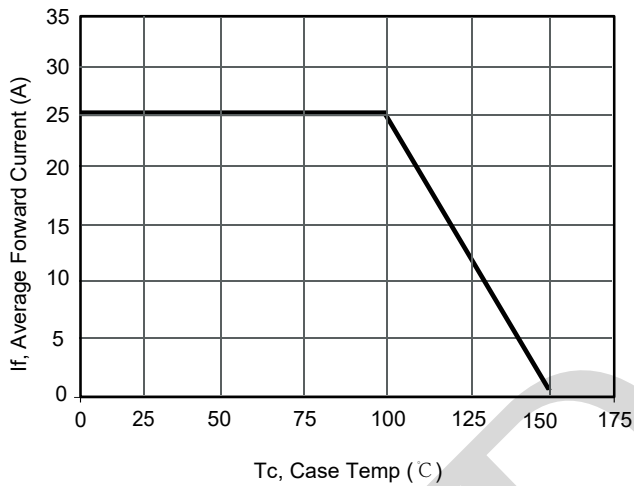


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

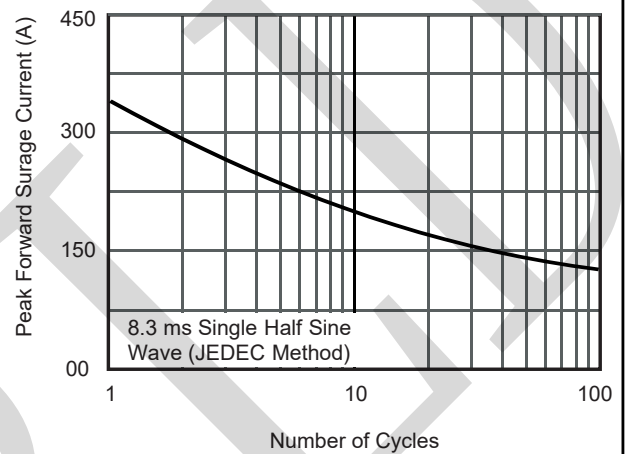


Fig.3 Typical Forward Voltage

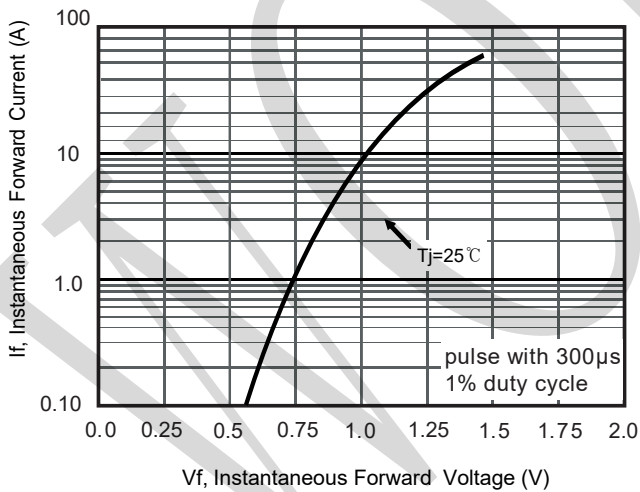
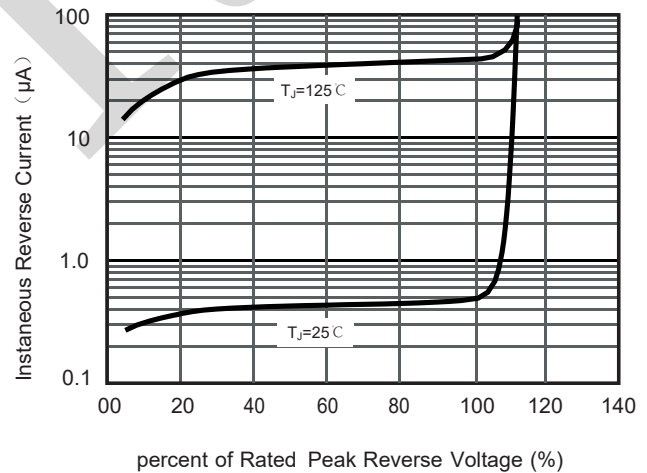
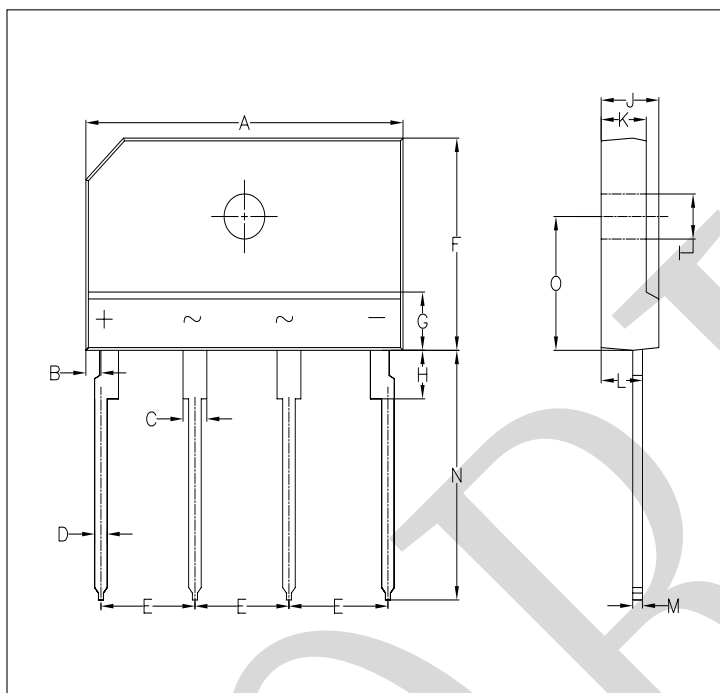


Fig.4 Typical Reverse Characteristics



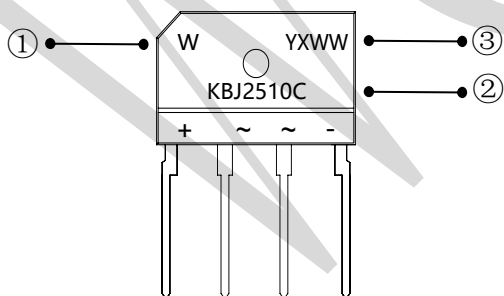
PACKAGE OUTLINE DIMENSIONS

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



①W : Company's trademark

②Product model : KBJ2510C

③PDC information :

Y X WW

WW:Week code(01 to 53)

X:Internal identification code

Y:Year code(ex:0=2020)