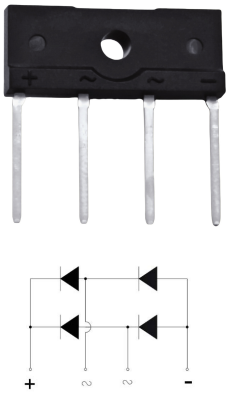
KBJL1010

18-Mar-2024

Glass Passivated Bridge Rectifiers

KBJL



Features

- Reverse Voltage - 1000 V
- Forward Current - 10.0 A
- Compliant With RoHS Provisions
- High Forward Surge Current Capability

Applications

- Case: KBJL
- 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	KBJL1010	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC Blocking Voltage	V_{DC}	1000	V
Average Rectified Output Current	I_o	10.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	200	A
Maximum Forward Voltage at 2A	V_F	0.90	V
Maximum Forward Voltage at 5A		0.97	
I^2t rating for fusing (1ms< t < 8.3 ms)	I^2t	166	A^2S
Maximum DC Reverse Current @TA=25 ℃ at Rated DC Blocking Voltage @TA=125 ℃	I_R	5 100	μA
Junction-to-case thermal resistance[1]	$R_{\theta JC}$	2	℃/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	℃

Note:1.Units mounted on 4" x 6" x 0.25" Al-plate

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

Fig.1 Current Derating, Case

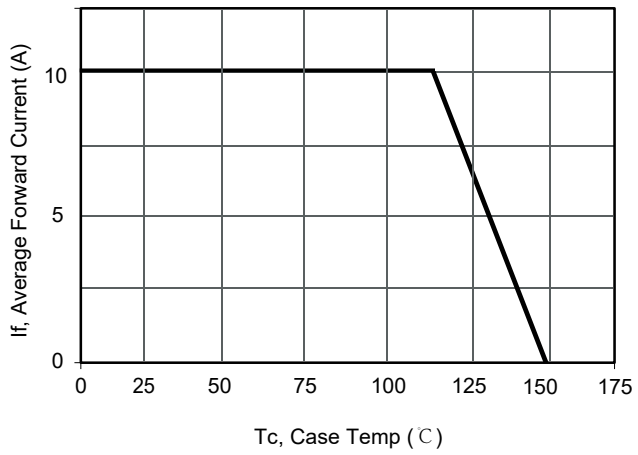


Fig.2 Maximum Non-Repetitive Peak Forward Surage Current

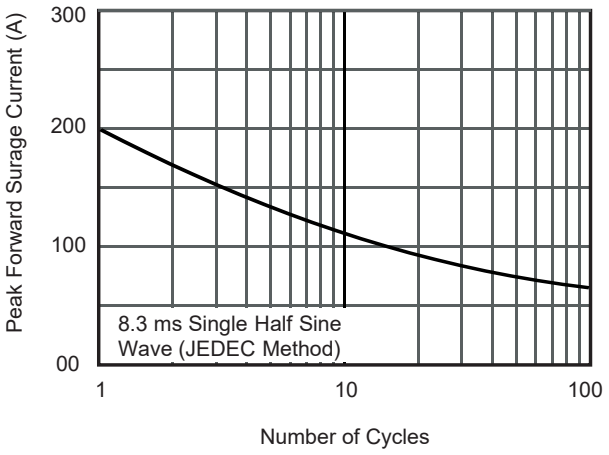


Fig.3 Typical Forward Voltage

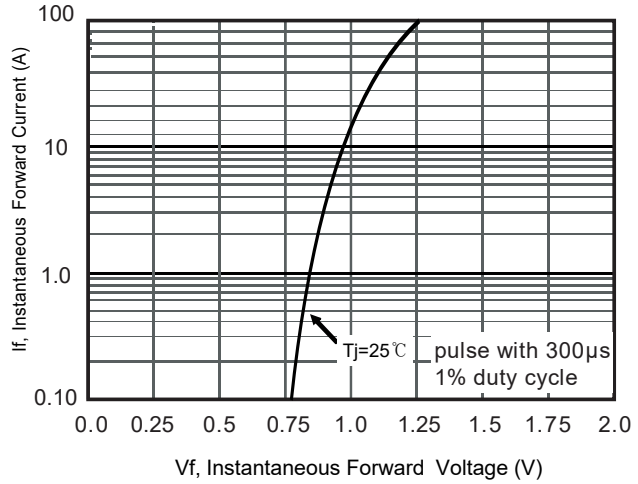
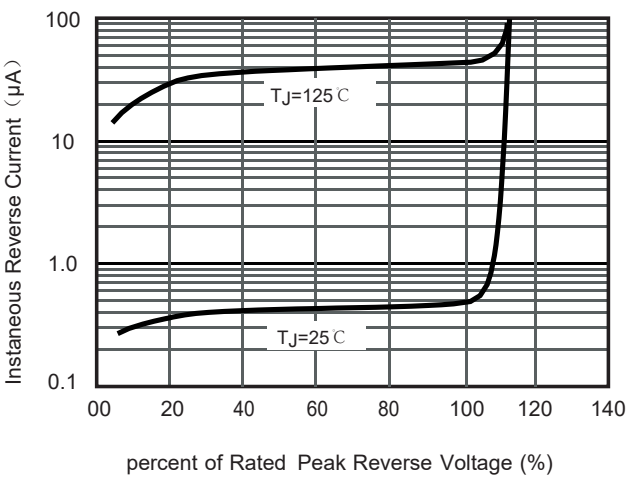


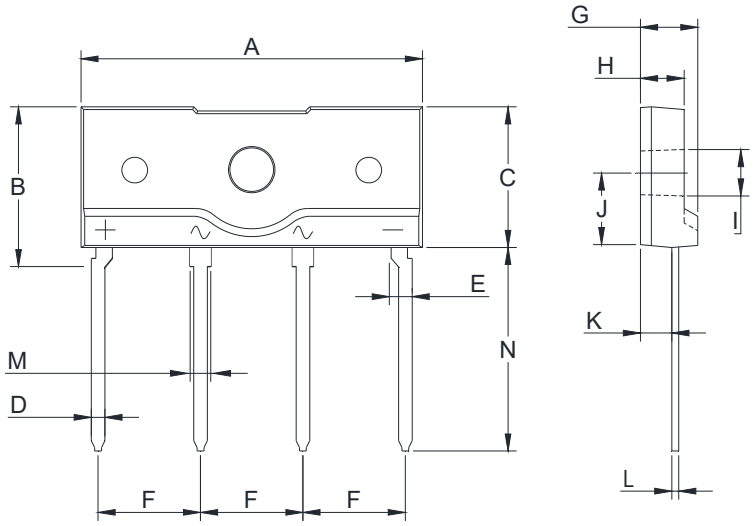
Fig.4 Typical Reverse Characteristics



PACKAGE OUTLINE DIMENSIONS

■ Outline Dimensions

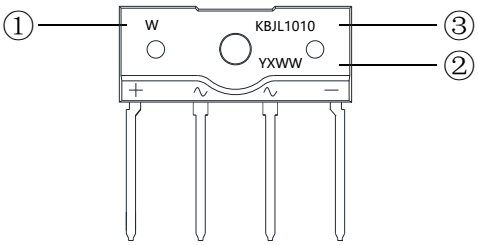
KBJL



Dimensions in millimeters

KBJL		
Dim	**Min**	**Max**
A	24.7	25.3
B	10.7	11.3
C	10.0	10.6
D	0.9	1.1
E	1.75(MAX)	
F	7.3	7.7
G	3.9	4.5
H	2.9	3.9
I	3.1	3.4
J	5.2	6.0
K	2.0	2.6
L	0.4	0.6
M	1.2	1.6
N	14.3	15.0

Marking Information



①W : Company's trademark

②Product model : KBJL1010

③PDC information：

Y X WW

WW:Week code(01 to 53)

X:Internal identification code

Y:Year code(ex:0=2020)