

Low VF Bridge Rectifiers

KBJL



Features

- Glass Passivated Chip Junction
- Low I_{RRM}
- Low V_F
- High V_{RRM}

Applications

- 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	KBJL808L	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	800	V
Maximum RMS voltage	V_{RMS}	560	V
Maximum DC Blocking Voltage	V_{DC}	800	V
Average Rectified Output Current	I_o	8.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	220	A
$I^2 t$ rating for fusing (1ms< t < 8.3ms)	$I^2 t$	200	A ² S
Maximum Forward Voltage at 4 A	V_F	0.92	V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	I_R	10 500	μA
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	°C
Typical thermal resistance (Note 1)	$R_{\theta JC}$	7.0	°C/W
	$R_{\theta JA}$	15	

Note: 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.

Ratings And Characteristics Curves (TA = 25 °C unless otherwise noted)

Fig.1 Current Derating, Case

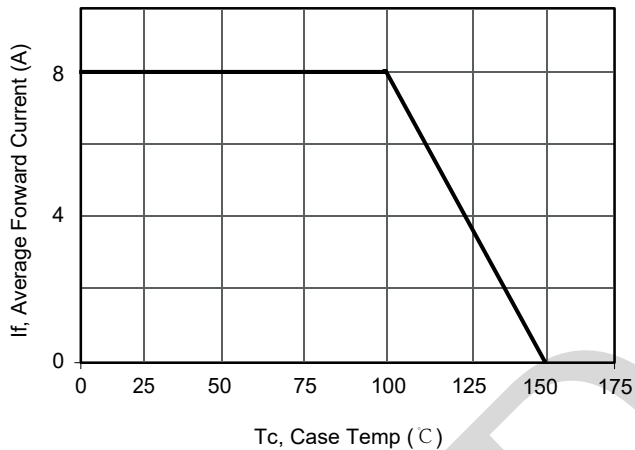


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

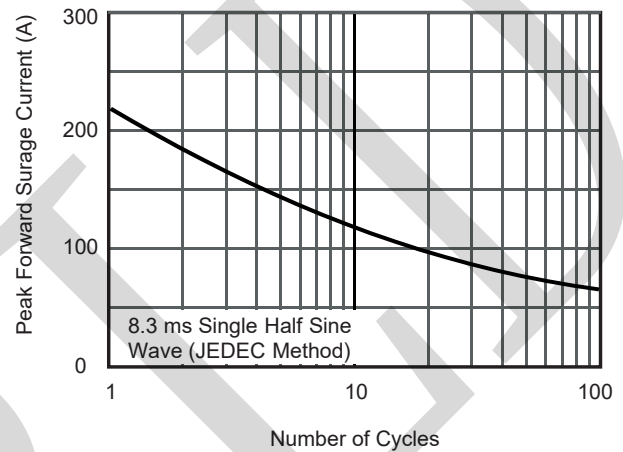


Fig.3 Typical Forward Voltage

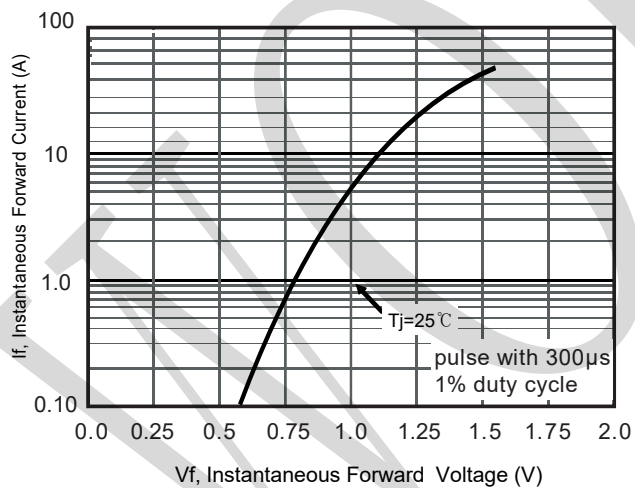
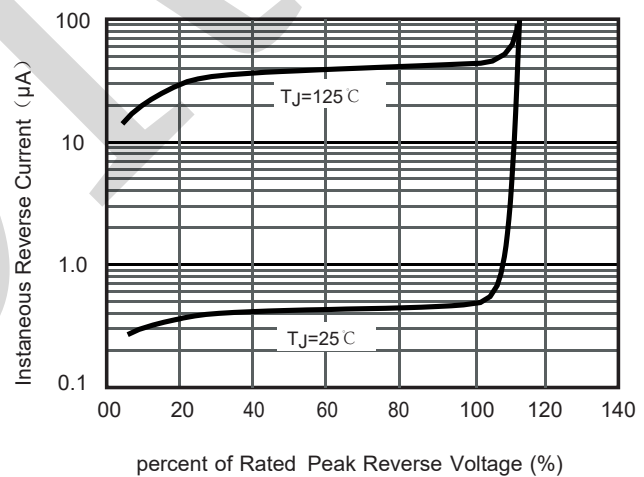
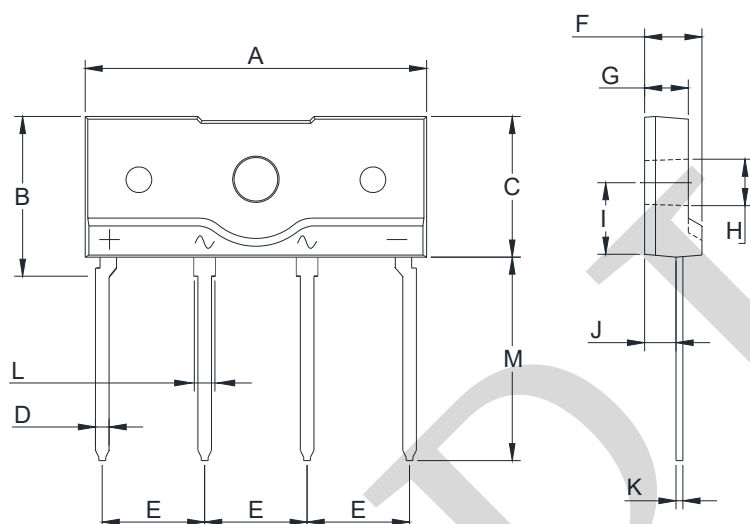


Fig.4 Typical Reverse Characteristics



Package Outline Dimensions

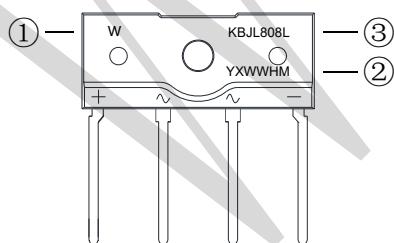
Note: unit In(mm)



KBJL		
Dim	Min	Max
A	24.6	25.4
B	10.7	12.0
C	10.0	10.6
D	0.9	1.1
E	7.2	7.7
F	3.9	4.7
G	2.9	4.0
H	3.1	3.5
I	5.2	6.0
J	2.0	3.0
K	0.4	0.7
L	1.2	1.6
M	14.2	15.0

Dimensions in millimeters

Marking Information



①W : Company's trademark

②Product model : KBJL808L

③PDC information :

Y X WW H M

M:Internal identification code 2

H:Halogen-free

WW:Week code(01 to 53)

X:Internal identification code 1

Y:Year code(ex:0=2020)

Revision Histor			
Date	Revision	Description & changes	Author
2026.07.01	1.0	Initial version	Ren