CHEN RUI KE
辰 瑞 克

深圳辰瑞克电子有限公司

KBJL8005 THUR KBJL810

Single Phase 8.0 AMP Glass Passivated Bridge Rectifier

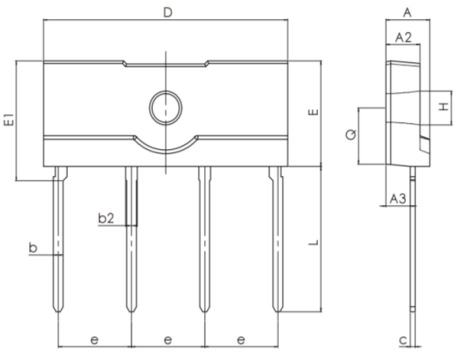
Features

- Glass passivated die construction.
- Low forward voltage drop.
- High surge current capability.
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- Plastic material-UL flammability 94V-0.

Mechanical Data

- Case:KBJ Molded Plastic.
- Terminals:Plated Leads Solderable per MIL-STD-202,Method208.
- Polarity:As Marked on Case.
- Marking Information: Type Number.
- Mounting Position : Any

KBJL



KBJL		
Dim	Min	Max
A	4.10	4.70
A2	2.90	4.00
A3	2.00	3.00
b	0.90	1.10
b2	1.20	1.50
c	0.40	0.65
D	24.70	25.30
E	10.00	1.60
E1	11.40	12.00
e	7.20	7.70
H	3.20	3.50
L	14.20	15.00
Q	5.40	6.00
All Dimensions in mm		

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave ,60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

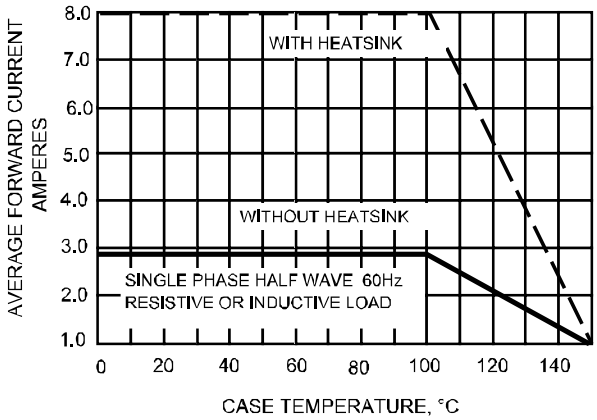
TYPE NUMBER	SYMBOL	KBJL 8005	KBJL 801	KBJL 802	KBJL 804	KBJL 806	KBJL 808	KBJL 810	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V_{RWM}								
DC Blocking Voltage	V_{DC}								
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum average forward rectified current	$I_{F(AV)}$	8.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	175							A
I^2t Rating for fusing (t<8.3ms)	I^2t	127.1							A^2s
Forward Voltage per element @IF=4.0A	VF	1.1							V
Maximum DC Reverse Current @T_A=25℃ at Rated DC Blocking Voltage @T_A=125℃	I_R	10.0 500							uA
Typical Junction Capacitance (Note 1)	C_J	55							pF
Typical Thermal Resistance (Note2)	$R_{\theta JC}$	7							℃/W
Storage temperature range	T_{STG}	-55 to +150							℃
Operating junction temperature range	T_J	-55 to +150							℃

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C
2. Device mounted on 35mmx35mmx1.7mm Cu Plate Heatsink.

Rating And Characteristic Curves

FIG.1-FORWARD CURRENT DERATING CURVE



FLG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

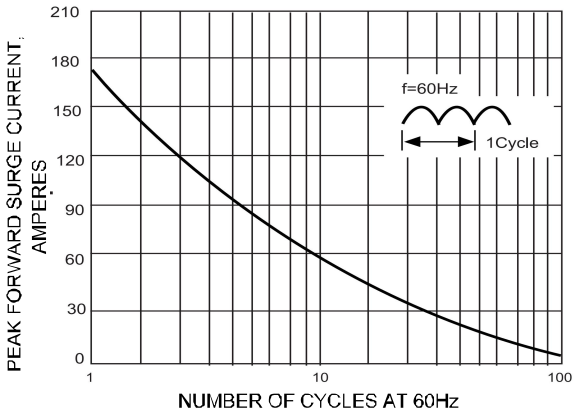


FIG.3-TYPICAL JUNCTION CAPACITANCE

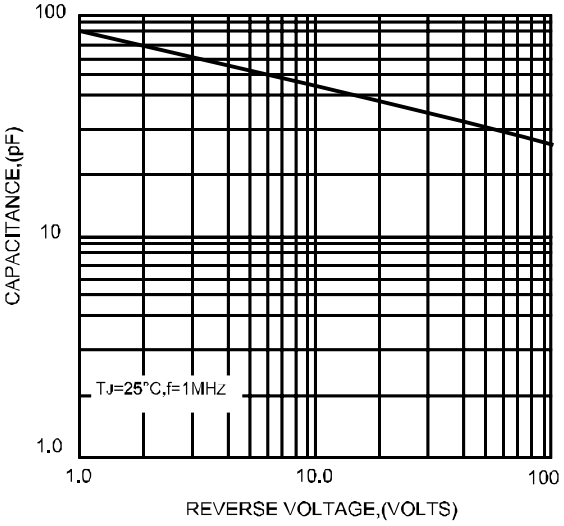


FIG.4-TYPICAL FORWARD CHARACTERISTICS

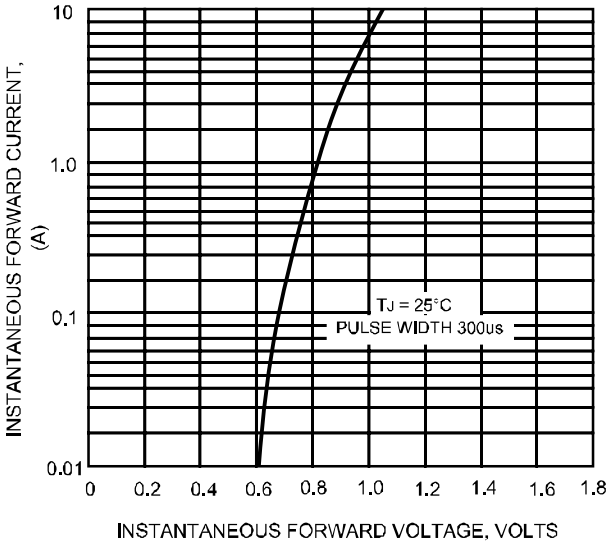


FIG.5-TYPICAL REVERSE CHARACTERISTICS

