

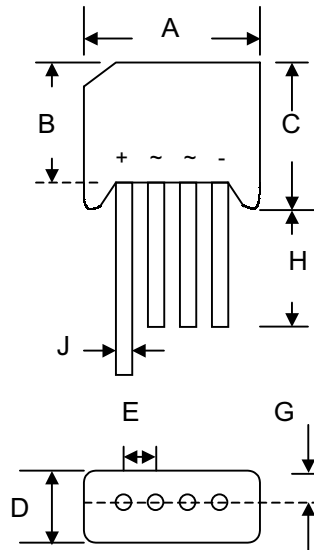
Data Sheet 1307, Rev.A

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- UL Recognized File # E223064

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 5.6 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



KBL				
Dim	Min	Max	Min	Max
A	18.50	19.50	0.728	0.768
B	13.7	14.7	0.539	0.579
C	15.2	16.3	0.598	0.642
D	6.0	6.50	0.236	0.256
E	4.60	5.60	0.181	0.220
G	—	2.10	—	0.083
H	19.00	—	0.748	—
J	1.20Ø	1.30Ø	0.050Ø	0.050Ø
		In mm	In inch	

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	KBL 400	KBL 401	KBL 402	KBL 404	KBL 406	KBL 408	KBL 410	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _C = 75°C	I _O	4.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150							A
Forward Voltage (per element) @I _F = 2.0A	V _{FM}	1.1							V
Peak Reverse Current @T _C = 25°C At Rated DC Blocking Voltage @T _C = 100°C	I _R	10 1.0							µA mA
Rating for Fusing (t < 8.3ms) (Note 1)	I ² _t	166							A ² s
Typical Thermal Resistance (Note 2)	R _{θJC}	19							K/W
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +125							°C

***Glass Passivated forms are available upon request.**

Note: 1. Non-repetitive for t > 1ms and < 8.3ms.

2. Thermal resistance junction to case per element mounted on PC board with 13.0x13.0x0.03mm thick land areas.

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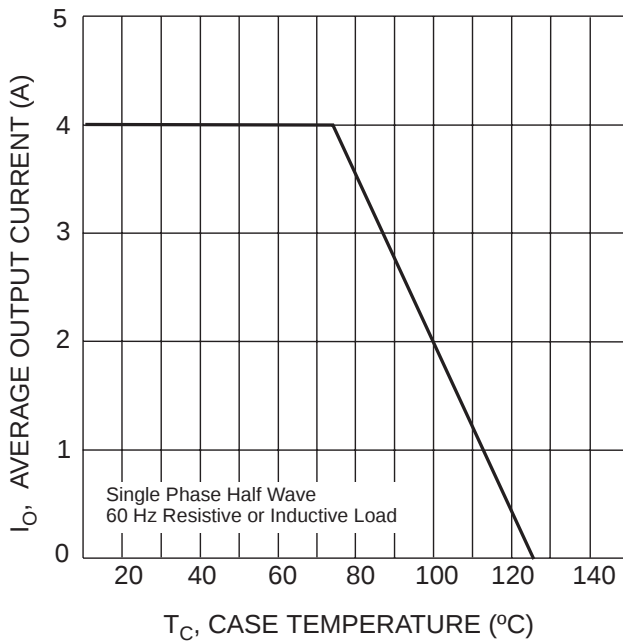


Fig. 1 Forward Current Derating Curve

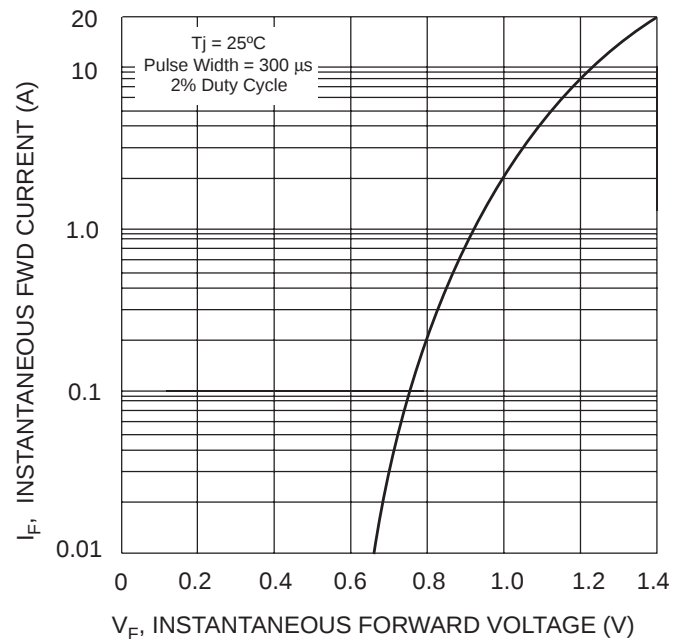


Fig. 2 Typical Forward Characteristics, per element

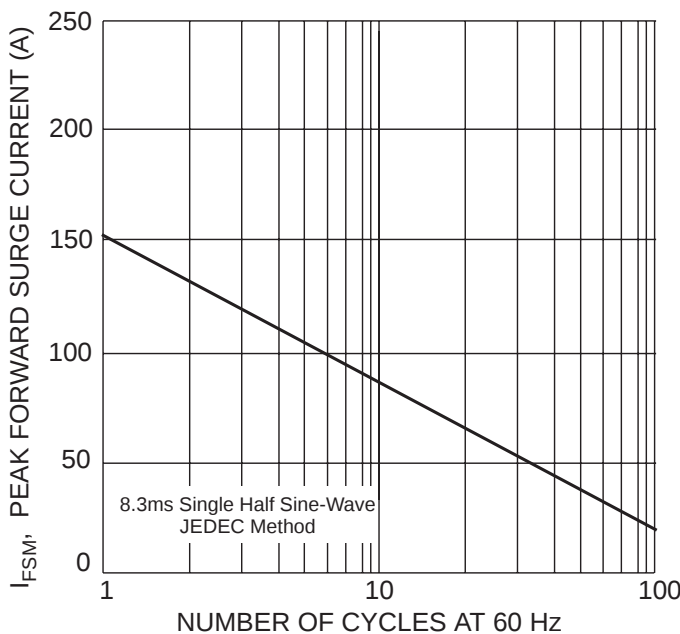


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

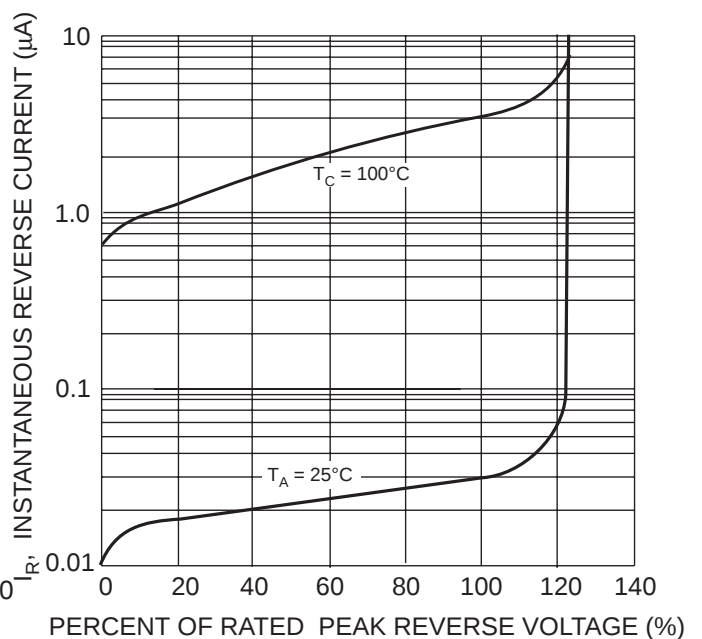


Fig. 4 Typical Reverse Characteristics, per element

TECHNICAL DATA

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