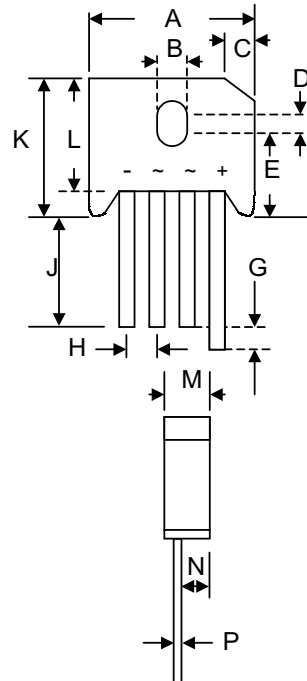


Data Sheet 1316, Rev. A

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



KBU				
Dim	Min	Max	Min	Max
A	22.70	23.70	0.894	0.933
B	3.80	4.10	0.150	0.161
C	4.20	4.70	0.165	0.185
D	1.70	2.20	0.067	0.087
E	10.30	11.30	0.406	0.445
G	4.50	6.80	0.177	0.268
H	4.60	5.60	0.181	0.220
J	25.40	—	1.00	—
K	—	19.30	—	0.760
L	16.80	17.80	0.661	0.701
M	6.60	7.10	0.260	0.280
N	4.70	5.20	0.185	0.205
P	1.20	1.30	0.047	0.051
	In mm		In inch	

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 8.0 grams (approx.)
- Mounting Position: Any
- Marking: Type Number

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	KBU 600	KBU 601	KBU 602	KBU 604	KBU 606	KBU 608	KBU 610	Unit
Peak Repetitive Reverse Voltage	V _{RRM}								
Working Peak Reverse Voltage	V _{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V _R								
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _C = 100°C	I _O	6.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	250							A
Forward Voltage (per element) @I _F = 3.0A	V _{FM}	1.0							V
Peak Reverse Current @T _C = 25°C	I _R	10							μA
At Rated DC Blocking Voltage @T _C = 100°C		1.0							mA
Rating for Fusing (t < 8.3ms) (Note 1)	I ² _t	166							A ² s
Typical Thermal Resistance (Note 2)	R _{θJC}	4.2							K/W
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +150							°C

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.

Data Sheet 1316, Rev. A

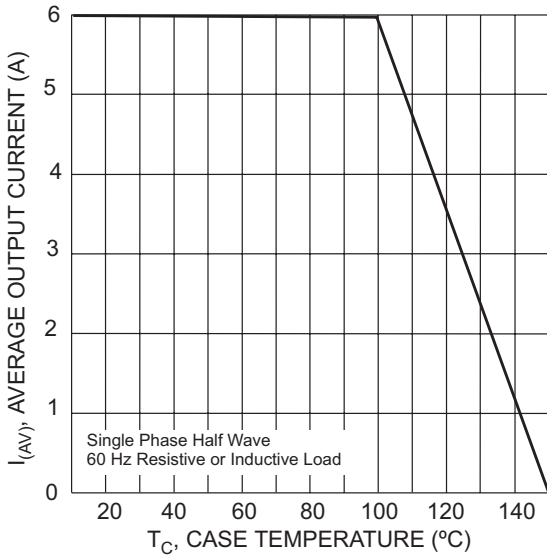


Fig. 1 Forward Current Derating Curve

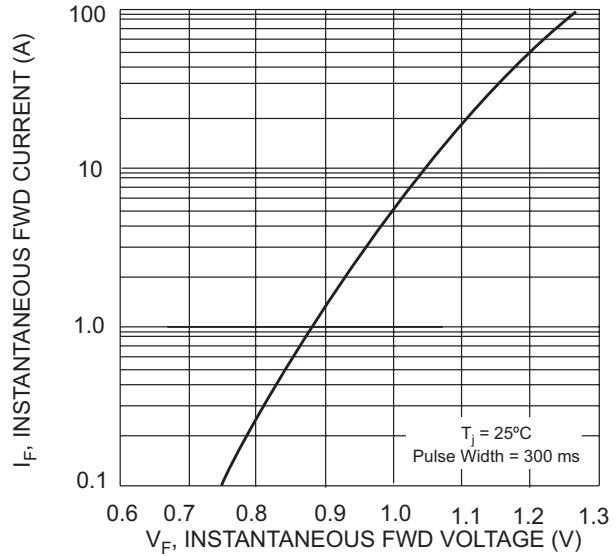


Fig. 2 Typical Forward Characteristics, per element

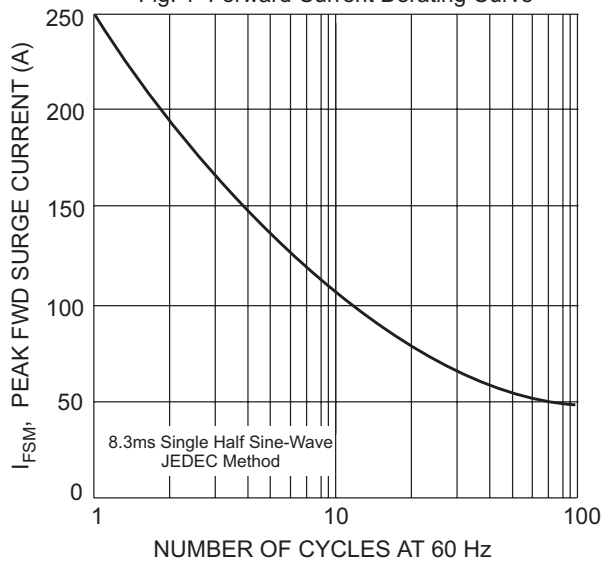


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

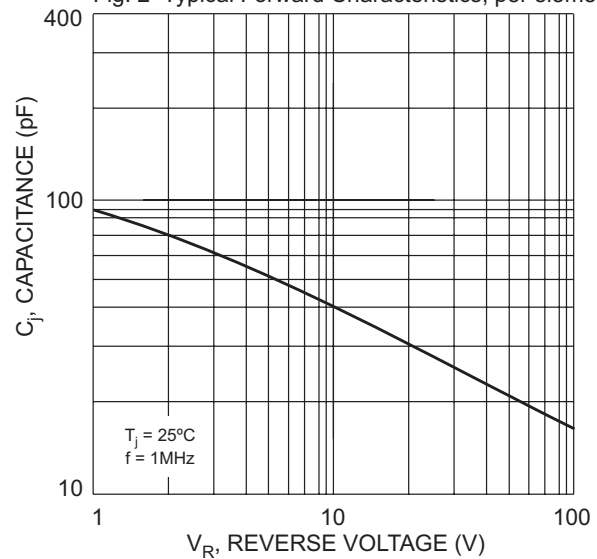


Fig. 4 Typical Junction Capacitance Per Element

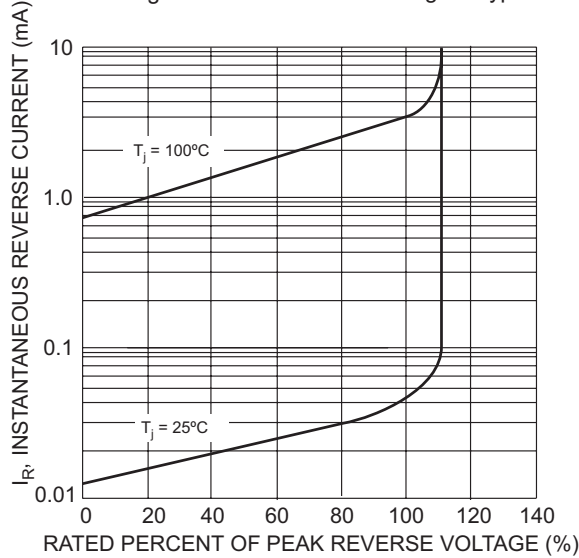


Fig. 5 Typical Reverse Characteristics

TECHNICAL DATA

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