SEMICONDUCTOR

8.0A BRIDGE RECTIFIER

Data Sheet 1418, Rev. A

Green Products

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
- Green Products in Compliance with the RoHS Directive

Mechanical Data

Case: Molded Plastic

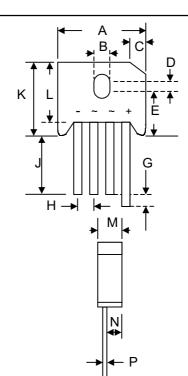
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: As Marked on Body

Weight: 8.0 grams (approx.)

Mounting Position: Any

Marking: Type Number



KBU										
Dim	Min	Max	Min	Max						
Α	22.70	23.70	0.894	0.933						
В	3.80	4.10	0.150	0.161						
С	4.20	4.70	0.165	0.185						
D	1.70	2.20	0.067	0.087						
Е	10.30	11.30	0.406	0.445						
G	4.50	6.80	0.177	0.268						
Н	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						
М	6.60	7.10	0.260	0.280						
N	4.70	5.20	0.185	0.205						
Р	1.20	1.30	0.047	0.051						
	In mm		In inch							

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

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

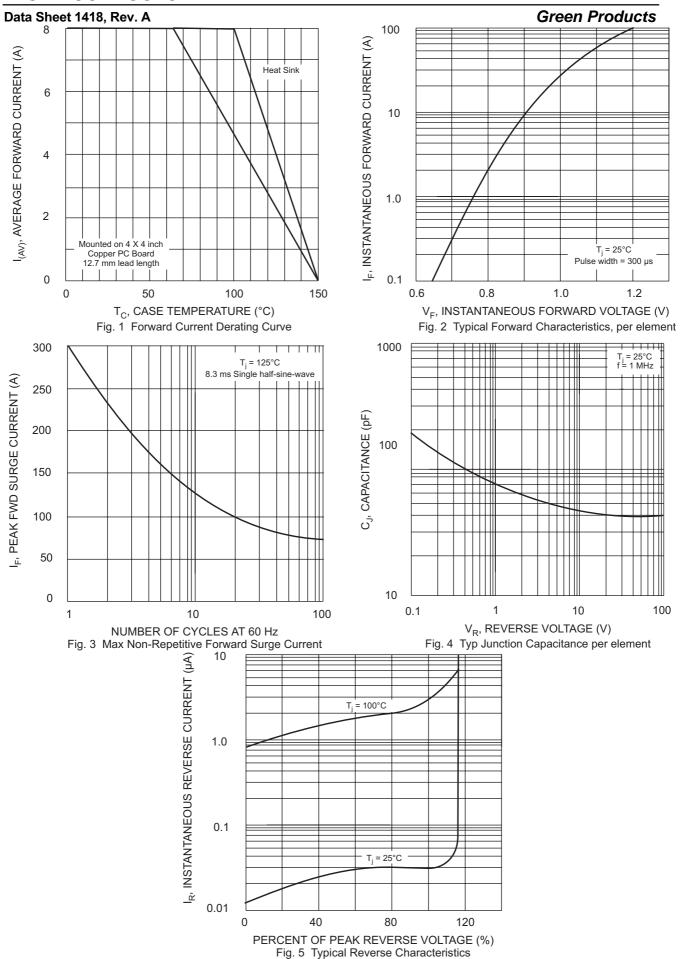
Characteristic	Symbol	KBU 800-G	KBU 801-G	KBU 802-G	KBU 804-G	KBU 806-G	KBU 808-G	KBU 810-G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _C = 100°C	lo	8.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	300							Α
Forward Voltage (per element) @I _F = 4.0A	VFM	1.0							V
Peak Reverse Current @T _C = 25°0 At Rated DC Blocking Voltage @T _C = 100°0	I ID	10 1.0						μA mA	
Rating for Fusing (t < 8.3ms) (Note 1)	I ² t	373							A ² s
Typical Thermal Resistance (Note 2)	RθJC	7.5							K/W
Operating and Storage Temperature Range	Tj, Tstg	-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.

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