SEMICONDUCTOR

25A BRIDGE RECTIFIER

Data sheet 1436, Rev.A

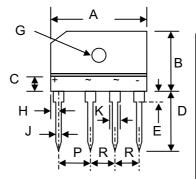
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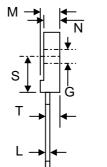
Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- 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: 4.0 grams (approx.)
- Mounting Position: Any
- Marking: Type Number





KBJ-6											
Dim	Min	Max	Min	Max							
Α	29.7	30.3	1.169	1.193							
В	19.7	20.3	0.776	0.799							
С	4.7	4.9	0.185	0.193							
D	17.0	18.0	0.669	0.709							
Е	3.8	4.2	0.150	0.165							
G	3.1Ø	3.4Ø	0.12Ø	0.13Ø							
Н	2.3	2.7	0.091	0.106							
J	0.9	1.1	0.035	0.043							
K	2.0	2.4	0.079	0.094							
L	0.6	0.7	0.024	0.028							
M	4.4	4.8	0.173	0.189							
N	3.4	_	0.134	_							
Р	9.8	10.2	0.386	0.402							
R	7.3	7.7	0.287	0.303							
S	11.4	12.4	4 0.448 0.								
Т	2.6	_	0.102	_							
	In r	nm	In inch								

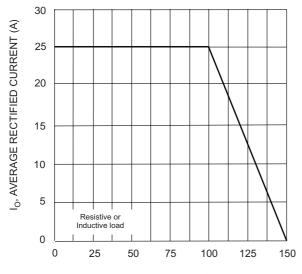
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Characteristic	Symbol	KBJ 25A-G	KBJ 25B-G	KBJ 25D-G	KBJ 25G-G	KBJ 25J-G	KBJ 25K-G	KBJ 25M-G	KBJ 25Q-G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	1200	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	840	V
Average Rectified Output Current $@T_C = 100^{\circ}C$ (Note 1)	lo	25								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 = 12.5A	VFM	1.1								٧
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_C = 100^{\circ}C$	lR	10 200								μA
Operating and Storage Temperature Range	Тj, Tsтg	-55 to +150								°C

Note: 1. Device mounted on $7.5 \times 7.5 \times 0.8 \text{cm}$ thick AL plate heatsink.

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T , TEMPERATURE (°C) Fig. 1 Forward Current Derating Curve

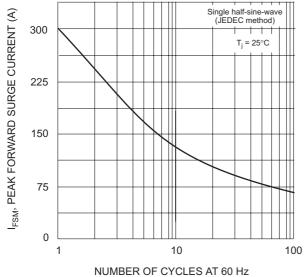
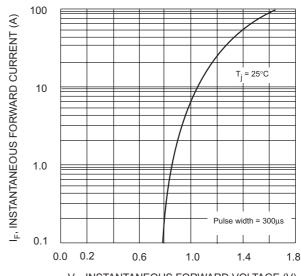


Fig. 3 Maximum Non-Repetitive Surge Current

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 V_{F} , INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Fwd Characteristics, per element

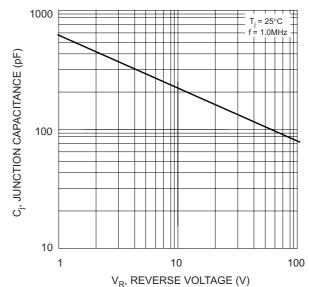


Fig. 4 Typical Junction Capacitance

KBJ25A-G - KBJ25Q-G

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