

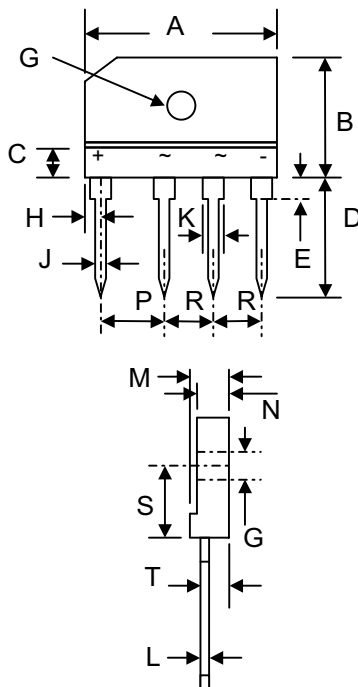
Data sheet 1286 Rev.A

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: 4.0 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



KBJ-6				
Dim	Min	Max	Min	Max
A	29.7	30.3	1.169	1.193
B	19.7	20.3	0.776	0.799
C	4.7	4.9	0.185	0.193
D	17.0	18.0	0.669	0.709
E	3.8	4.2	0.150	0.165
G	3.1Ø	3.4Ø	0.12Ø	0.13Ø
H	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	—
P	9.8	10.2	0.386	0.402
R	7.3	7.7	0.287	0.303
S	10.8	11.2	0.425	0.441
T	2.6	—	0.102	—
		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	KBJ 15A	KBJ 15B	KBJ 15D	KBJ 15G	KBJ 15J	KBJ 15K	KBJ 15M	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 = 100°C	I _O	15							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	200							A
I ² t Rating for Fusing (t < 8.35ms)	I ² t	110							A ² s
Forward Voltage (per diode) @I _F = 7.5A	V _{FM}	1.1							V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _C = 100°C	I _R	5.0 500							µA
Typical Thermal Resistance (per leg) (Note 1)	R _{θJA}	22							K/W
Typical Thermal Resistance (per leg) (Note 2)	R _{θJC}	1.5							K/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C

Note: 1. Thermal resistance junction to ambient, mounted on PCB at 9.5mm lead length.
2. Thermal resistance junction to case, mounted on 7.5 x 7.5 x 0.8cm thick AL plate heatsink.

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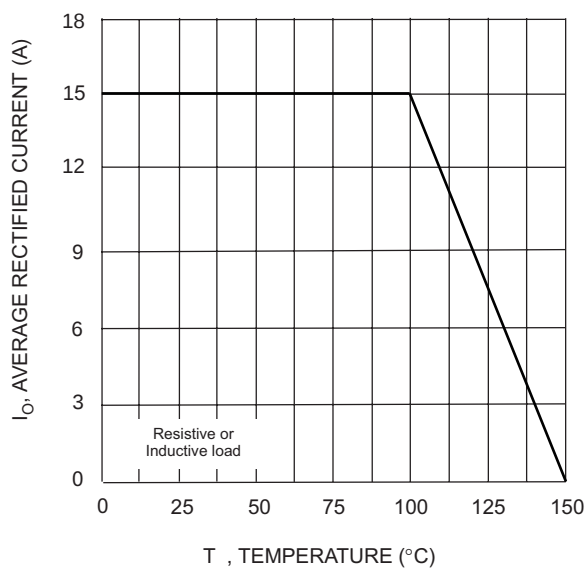


Fig. 1 Forward Current Derating Curve

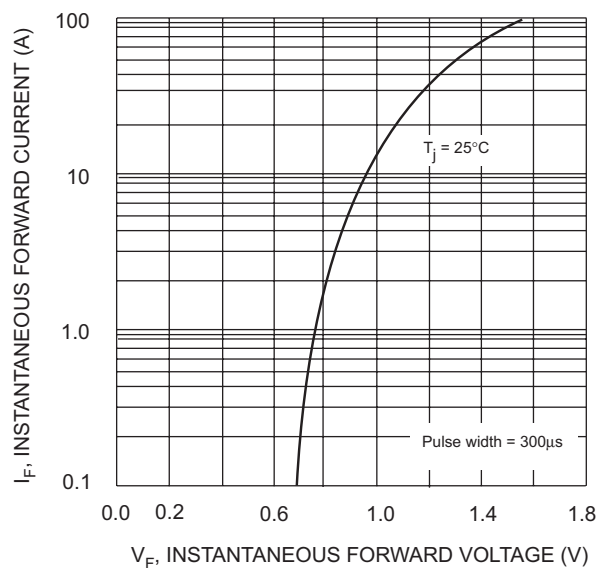


Fig. 2 Typical Fwd Characteristics, per element

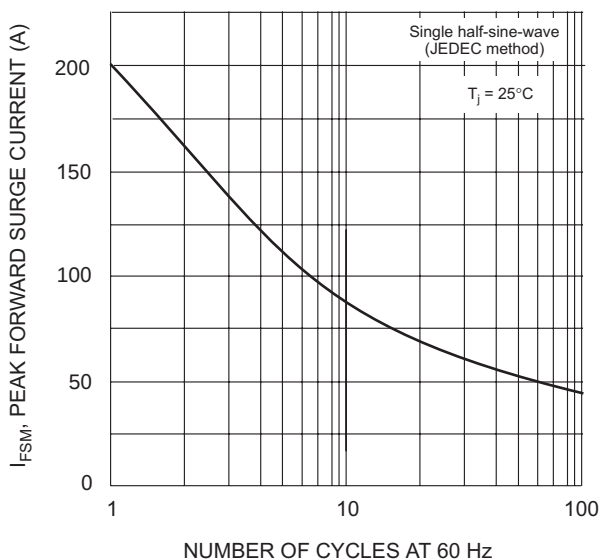


Fig. 3 Maximum Non-Repetitive Surge Current

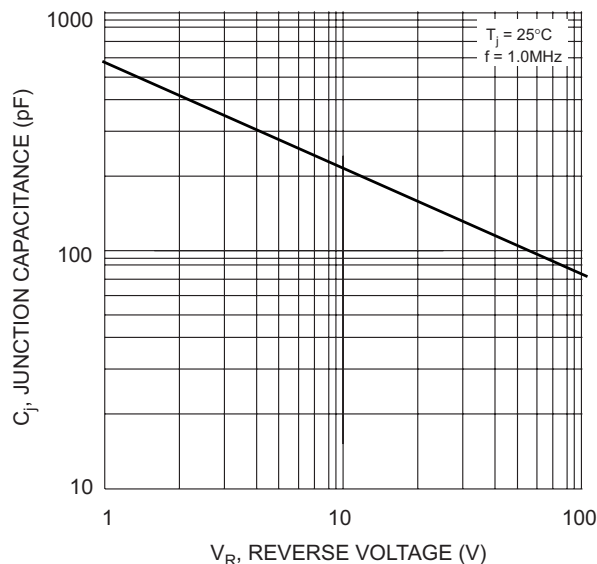


Fig. 4 Typical Junction Capacitance

TECHNICAL DATA

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