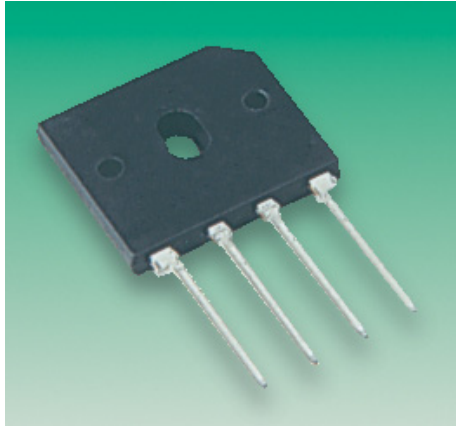


KBU4 Series

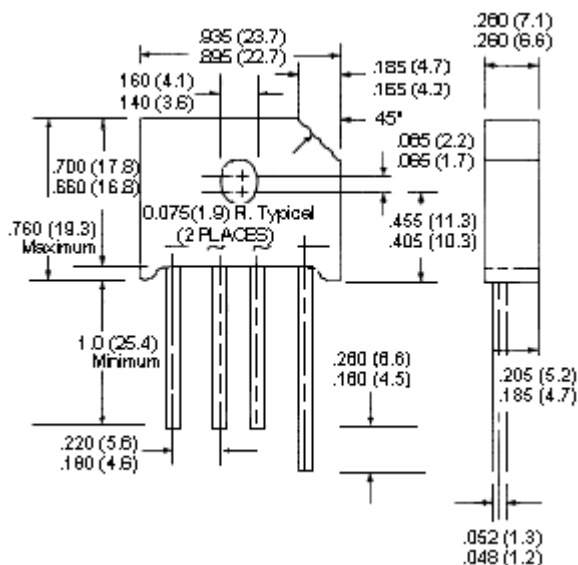
Single Phase Bridge Rectifiers



Features:

- Ideal for printed circuit board.
- Surge overload rating: 150 amperes peak.
- High temperature soldering guaranteed: 260°C/10 seconds/0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension.

KBU



Dimensions : Inches (Millimetres)

Mechanical Data:

Case	: Reliable low cost construction utilizing moulded plastic technique.
Terminals	: Leads solderable per MIL-STD-202, Method 208.
Mounting Position	: Any.
Mounting Torque	: 5in.-lb. maximum.
Weight	: 0.3 ounces, 8 grams.

KBU4 Series

Single Phase Bridge Rectifiers



Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load, 60Hz.

For capacitive load derate current by 20%.

Parameter	KBU4B	KBU4J	KBU4K	Units
Maximum recurrent peak reverse voltage	100	600	800	V _{RRM}
Maximum RMS input voltage	70	420	560	V _{RMS}
Maximum DC blocking voltage	100	600	800	V _{DC}
Maximum average forward rectified output current at T _C = 100°C T _A = 40°C	4.0			A _(AV)
I ² t Rating for fusing (t <8.35ms)	9.3			A ² seconds
Peak forward surge current single sine-wave superimposed on rated load (JEDEC method)	150			Apk
Maximum instantaneous forward voltage drop per element at 4.0A	1.0			Vpk
Maximum reverse leakage at rated DC blocking voltage per element T _A = 25°C T _C = 100°C	10 1000			μA
Typical thermal resistance per leg (NOTE 2) RθJA	19			°C/W
Typical thermal resistance per leg (NOTE 3) RθJL	4			
Operating junction and storage temperature range, T _J , T _{STG}	-65 to +150			°C

NOTES:

- 1) Recommended mounting position is to bolt down on to a heatsink with silicone thermal compound for maximum heat transfer with a number 6 screw.
- 2) Units mounted in free air, no heatsink PCB at 0.375" (9.5mm) lead length with 0.5 x 0.5" (12 x 12mm) copper pads.
- 3) Units mounted on a 2.0 x 1.6" x 0.3" thick (5 x 4 x 0.8cm) Aluminium plate.

Ratings and Characteristics Curves

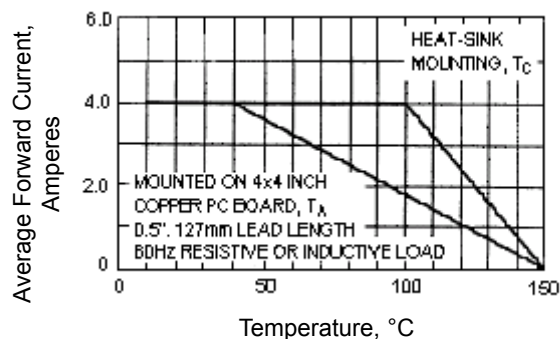


Figure - 1 Derating Curve for Output Rectified Current

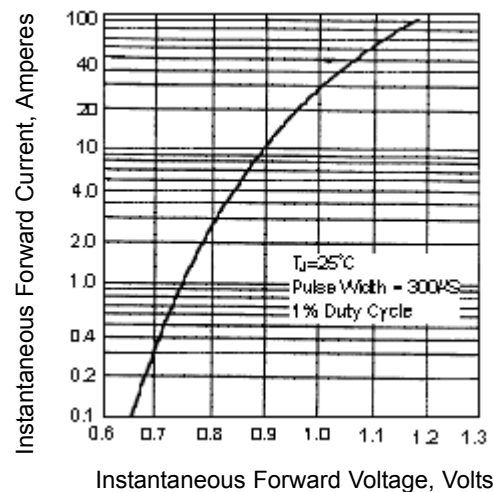


Figure - 2 Typical Instantaneous Forward Characteristics per Element

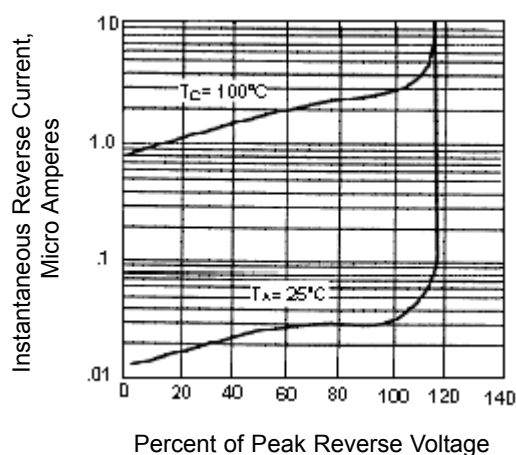


Figure - 3 Typical Reverse Characteristics

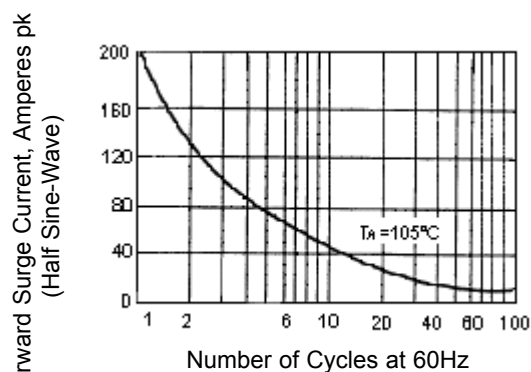


Figure - 4 Maximum Non-Repetitive Peak Forward Surge Current

KBU4 Series

Single Phase Bridge Rectifiers

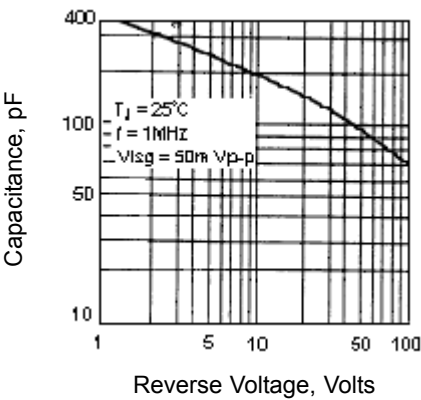


Figure - 5 Typical Junction Capacitance per Element

Specifications

V_{RRM} (V)	Maximum Input Voltage (V ac)	I_O at 40°C (A)	I_{FSM} (A)	Package	Part Number
600	420	4	200	Plastic	KBU4J
800	560				KBU4K
100	70				KBU4B

KBU4 Series

Single Phase Bridge Rectifiers



Notes:

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