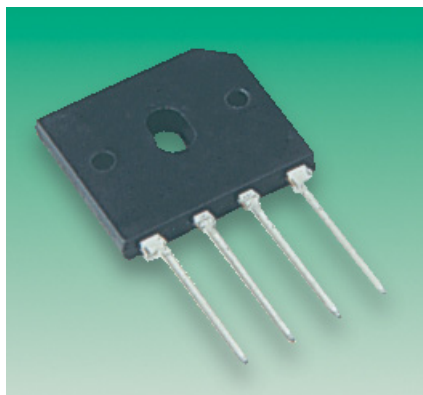


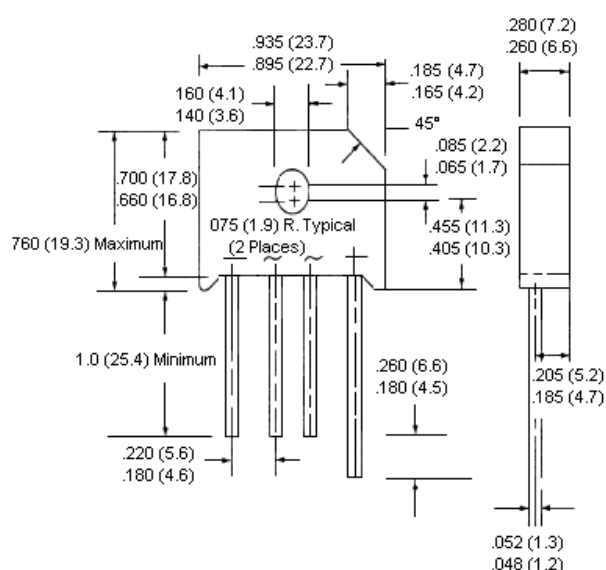
Single Phase Bridge Rectifiers



Features:

- Silicon single-phase bridge rectifiers.
- Ideal for printed circuit board.
- Surge overload rating : 200 Amperes peak.
- High temperature soldering guaranteed : 260°C/10 seconds/0.375" (9.5mm) lead length at 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 | : 5 in. lb. Maximum. |
| Weight | : 0.3 ounce, 8 grams. |

Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load, 60Hz.

For Capacitive load derate current by 20%.

Parameter	Rating	Units
Maximum recurrent peak reverse voltage	200	V _{RRM}
Maximum RMS input voltage	140	V _{RMS}
Maximum DC blocking voltage	200	V dc
Maximum average forward rectified output current at T _C = 100°C T _A = 40°C	6.0	A _(AV)



Maximum Ratings and Electrical Characteristics:

Parameter	Rating	Units
I ² t Rating for fusing (t < 8.35ms)	127	A ² S
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	200	A _{PK}
Maximum instantaneous forward voltage drop per element at 6.0A	1.0	V _{PK}
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 Typical thermal resistance per leg (Note 3) RθJC	8.6 3.1	°C/W
Maximum thermal resistance JC (Note 1)	3.0	
Operating 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.

Rating and Characteristics Curves

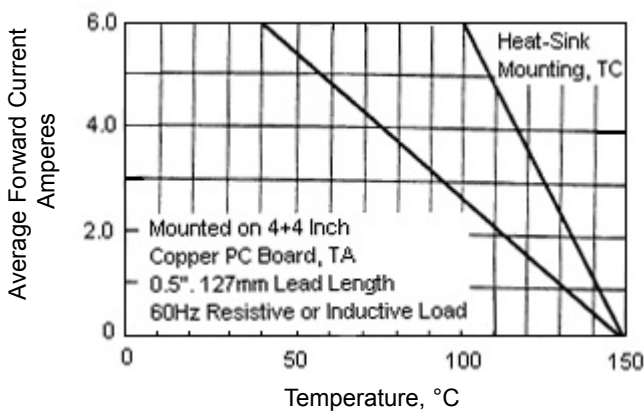


Figure 1 - Derating Curve for Output Rectified Current

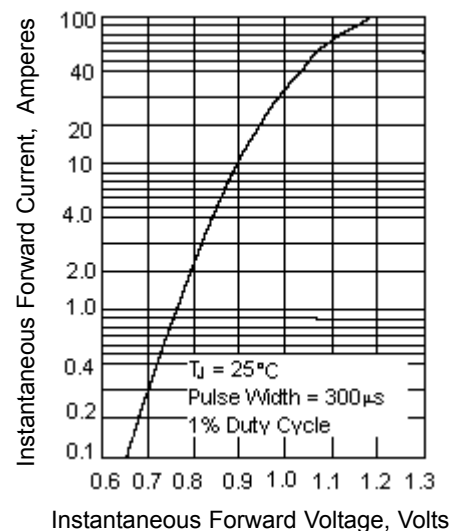


Figure 2 - Typical Instantaneous Forward Characteristics per Element

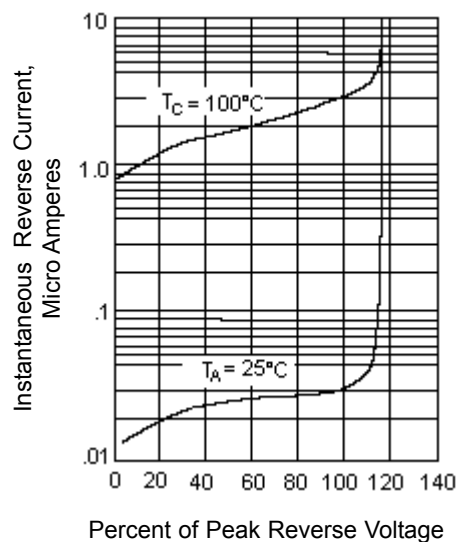


Figure 3 - Typical Reverse Characteristics

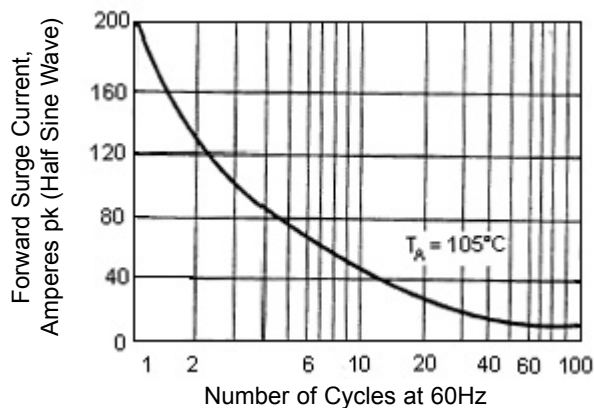


Figure 4 - Maximum Non-Repetitive Peak Forward Surge Current

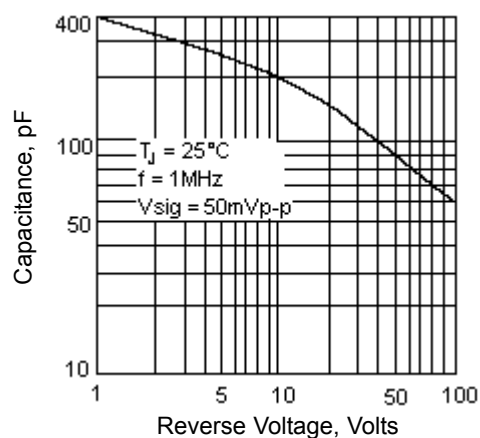


Figure 5 - Typical Junction Capacitance per Element

Specifications

V_{RRM} (V)	Maximum Input Voltage (V ac)	I_O at 40°C (A)	I_{FSM} (A)	Current Rating (A)	Body			Part Number
					Height	Width	Depth	
200	140	6	200	6	19.3	23.7	7.2	KBU6D

Dimensions : Millimetres

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