

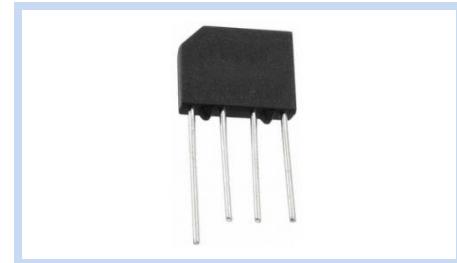
Single-phase Silicon Bridge Rectifier – KBP Package

KBP30XG Serise

MERITEK

FEATURE

- Glass passivated
- Surge overload rating: 80 amperes peak
- Reserve Voltage from 50 to 1000V
- Forward Current: 3.0 A
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed
- UL/cUL safety approved: certification No: E223027



ELECTRICAL CHARACTERISTICS



| Parameter | Symbols | KBP 3005G | KBP 301G | KBP 302G | KBP 304G | KBP 306G | KBP 308G | KBP 310G | Unit |
|--|-----------------------------------|--------------|-------------|-------------|--|-------------|-------------|-------------|------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current at T _A =50°C(With Heatsink Note 1) | I _(AV) | | | | | 3.0 | | | A |
| Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method) | I _{FSM} | | | | | 80.0 | | | A |
| Maximum Forward Voltage at 3.0A DC and 25°C | V _F | | | | | 1.1 | | | V |
| Maximum Reverse Current at Rated DC Blocking Voltage | I _R | | | | 10.0, at T _A =25°C, 500, at T _A =100°C | | | | µA |
| Typical Junction Capacitance applied reverse voltage of 4.0 VDC at 1 MHZ and | C _J | | | | 25 | | | | pF |
| Typical Thermal Resistance, thermal Resistance Junction to Ambient and form junction to lead at 0.375"(9.5mm) lead length P.C.B. Mounted. | R _{θJA} | | | | 30 | | | | °C |
| Operating and Storage Temperature Range | T _J , T _{stg} | | | | 11 | | | | °C |
| Rating at 25°C, ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%. | | | | | -55 to +150 | | | | |

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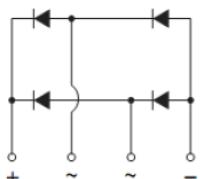
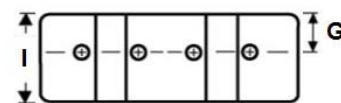
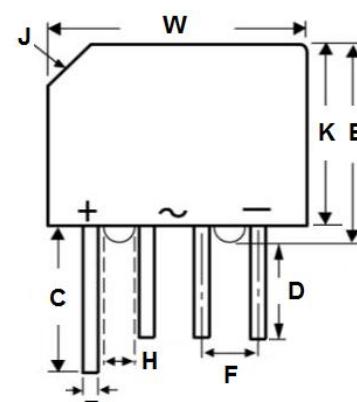
Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

DIEMNSIONS

| Item | Milimeters | | Item | Milimeters | |
|------|------------|-------|------|------------|------|
| | Min. | Max. | | Min. | Max. |
| W | 14.22 | 15.24 | F | 3.6 | 4.1 |
| K | 10.67 | 11.68 | G | 0.90 | 1.40 |
| B | 11.68 | 12.70 | H | 1.52 | - |
| C | 15.2 | - | I | 3.35 | 4.20 |
| D | 12.7 | - | J | 3.2x45° | - |
| E | 0.76 | 0.86 | | | |

FUNCTIONAL DIAGRAM



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CHARACTERISTICS CURVES

