



Micro Commercial Components



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KBJL8005G THRU KBJL810G

**4 Amp
GLASS PASSIVATED
BRIDGE RECTIFIERS
50 to 1000 Volts**

Features

- Halogen free available upon request by adding suffix "-HF"
- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (NOTE 1) ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

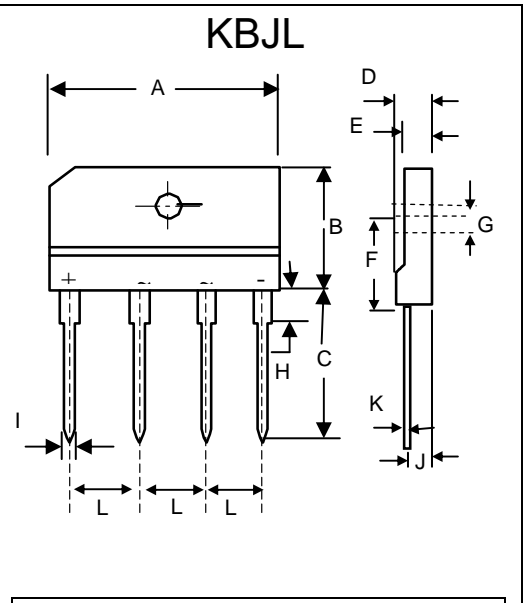
- Operating Junction Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Mounting Torque: 5.0 in-lbs Maximum
- UL Recognized File # E165989

| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|--|---------------------|-----------------------------|
| KBJL8005G | KBJL8005G | 50V | 35V | 50V |
| KBJL801G | KBJL801G | 100V | 70V | 100V |
| KBJL802G | KBJL802G | 200V | 140V | 200V |
| KBJL804G | KBJL804G | 400V | 280V | 400V |
| KBJL806G | KBJL806G | 600V | 420V | 600V |
| KBJL808G | KBJL808G | 800V | 560V | 800V |
| KBJL810G | KBJL810G | 1000V | 700V | 1000V |

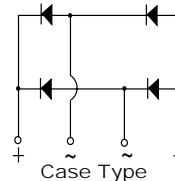
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|--------------------------------------|--|
| Average Forward Current | $I_{F(AV)}$ | 8.0A | $T_C = 100^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 180A | 8.3ms, half sine |
| Maximum Forward Voltage Drop Per Element | V_F | 1.0V | $I_{FM} = 4.0\text{A per element};$ $T_A = 25^\circ\text{C}$ (Note 2) |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 5 μA 250 μA | $T_A = 25^\circ\text{C}$ $T_C = 125^\circ\text{C}$ |
| I^2t Rating for fusing | I^2t | 134A ² S | ($t < 8.3\text{ms}$) |

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7
2. Pulse Test: Pulse Width 300usec, Duty Cycle 1%



| DIM | INCHES | | MM | | NOTE |
|-----|----------|------|----------|-------|------|
| | MIN | MAX | MIN | MAX | |
| A | .972 | .996 | 24.70 | 25.30 | |
| B | .394 | .417 | 10.00 | 10.60 | |
| C | .697 | .736 | 17.70 | 18.70 | |
| D | .142 | .157 | 3.60 | 4.00 | |
| E | .110 | .126 | 2.80 | 3.20 | |
| F | .217 | .232 | 5.50 | 5.90 | |
| G | .122 | .134 | 3.10 | 3.40 | |
| H | .669 typ | | 1.70 typ | | |
| I | .035 | .043 | 0.90 | 1.10 | |
| J | .098 | .114 | 2.50 | 2.90 | |
| K | .016 | .024 | 0.40 | 0.60 | |
| L | .287 | .303 | 7.30 | 7.70 | |





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Ordering Information

| | |
|------------------|---------------|
| Device | Packing |
| (Part Number)-BP | Bulk;2.4K/Ctn |

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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