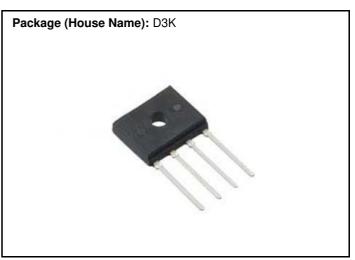
UD3KB80

Bridge Diodes 800V, 3.0A

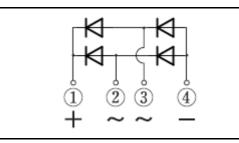
Feature

- Compact SIP
- UL E142422
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tc=25°C)

| Item | Symbol | Conditions | Ratings | Unit |
|---------------------------------|---------------------|---|------------|------------------|
| Storage temperrature | Tstg | | -55 to 150 | °C |
| Junction temperature | Tj | | 150 | °C |
| Repetitive peak reverse voltage | V _{RRM} | | 800 | V |
| Average forward current | I _F (AV) | 60Hz sine wave, Resistance load, With heatsink, Tc=140°C | 3 | А |
| Average forward current | I _F (AV) | 60Hz sine wave, Resistance load, Without heatsink, Ta=29°C | 1.2 | А |
| Surge forward current | I _{FSM} | 60Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C | 90 | А |
| Current squared time | ľt | 3ms≦t<8.3ms, Tj=25°C, per diode | 35 | A ² s |
| Dielectric strength | Vdis | Terminals to case, AC 1 minute | 2 | kV |
| Mounting torque | TOR | (Recommended torque : 0.5N·m) | 0.8 | N∙m |

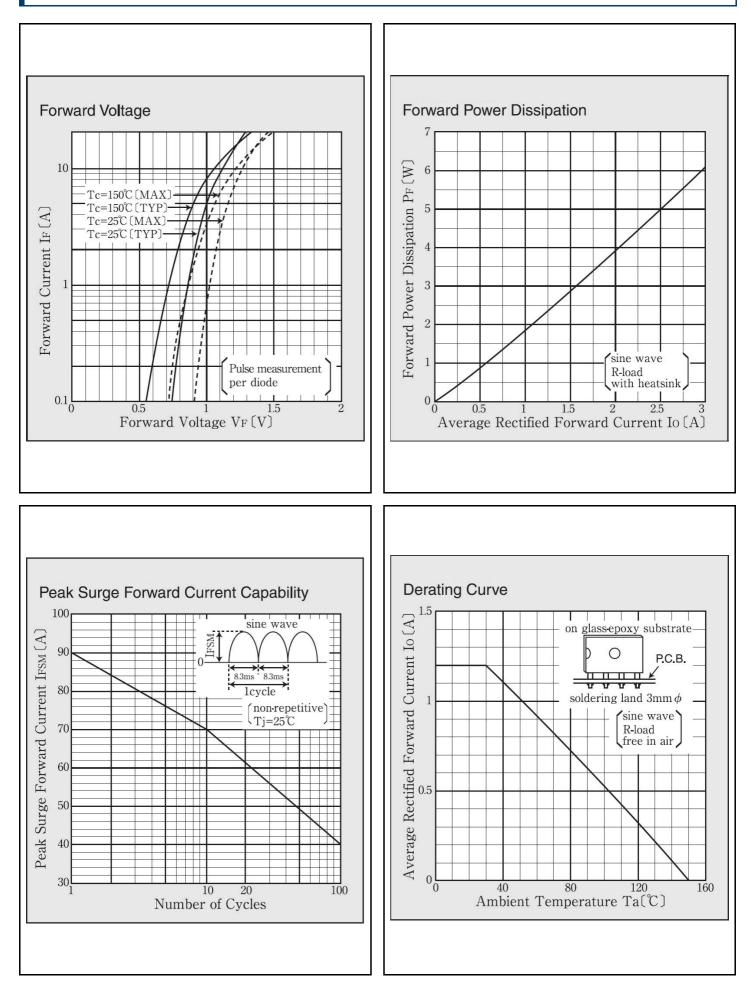
* : See the original Specifications

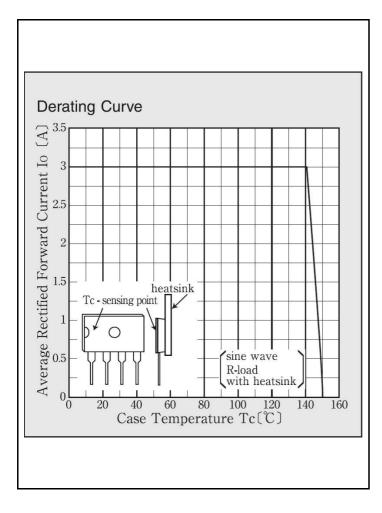
| Electrical Characteristics | (unless otherwise specified : Tc=25°C) |
|-----------------------------------|--|
| | |

| Item | Symbol | Conditions | Ratings | | | Unit |
|--------------------|----------------|---------------------------------------|---------|-----|------|------|
| | | | MIN | ТҮР | MAX | Onit |
| Forward voltage | V _F | IF=1.5A, Pulse measurement, per diode | | | 1.05 | V |
| Reverse current | I _R | VR=800V, Pulse measurement, per diode | | | 10 | μA |
| Thermal resistance | Rth(j-c) | Junction to case, With heatsink | | | 1.5 | °C/W |
| Thermal resistance | Rth(j-l) | Junction to lead, Without heatsink | | | 15 | °C/W |
| Thermal resistance | Rth(j-a) | Junction to ambient, Without heatsink | | | 55 | °C/W |

*:See the original Specifications

CHARACTERISTIC DIAGRAMS

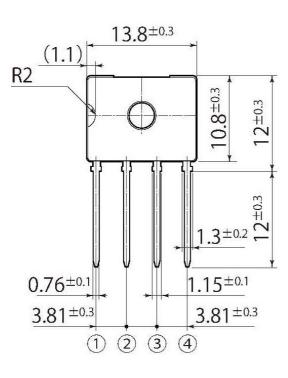


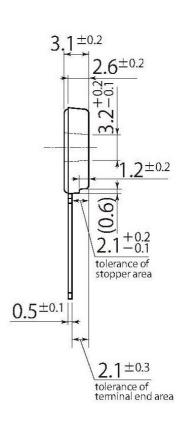


unit:mm

D1

| JEDEC Code | - | |
|------------|-----|--|
| JEITA Code | - | |
| House Name | D3K | |





Notes

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