

ROHS

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UD4KB05 THRU UD4KB100

Features

- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)
- High surge forward current capability
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

Operating Temperature: -55°C to +150°C
 Storage Temperature: -55°C to +150°C

Mounting Torque: 0.5 N·mUL Recognized File # E165989

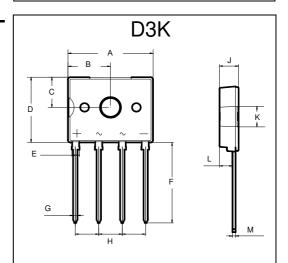
| MCC | Device | Maximum | Maximum | Maximum |
|----------|----------|--------------|---------|----------|
| Catalog | Marking | Reccurrent | RMS | DC |
| Number | | Peak Reverse | Voltage | Blocking |
| | | Voltage | | Voltage |
| UD4KB05 | UD4KB05 | 50V | 35V | 50V |
| UD4KB10 | UD4KB10 | 100V | 70V | 100V |
| UD4KB20 | UD4KB20 | 200V | 140V | 200V |
| UD4KB40 | UD4KB40 | 400V | 280V | 400V |
| UD4KB60 | UD4KB60 | 600V | 420V | 600V |
| UD4KB80 | UD4KB80 | 800V | 560V | 800V |
| UD4KB100 | UD4KB100 | 1000V | 700V | 1000V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| Average Forward Current | I _{F(AV)} | 4.0 A | Tc = 140°C |
|---|----------------------------|--------------------|---|
| Peak Forward Surge Current | I _{FSM} | 135A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage | V_{F} | 1.00V | I _{FM} = 7.5A T _J = 25°C |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I _R | 10 μΑ | T _a = 25°C |
| I ² t Rating for fusing | l ² t | 75A ² S | (1ms< t<8.3ms) |
| Thermal Resistance | R _{thJA} RthJC | 55°C/W 1.5°C/W | |

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

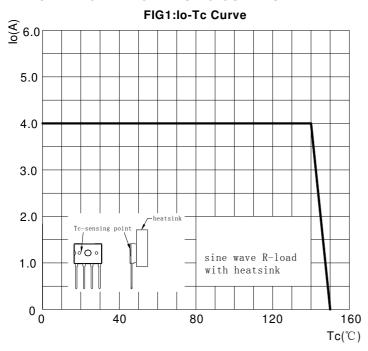
4 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

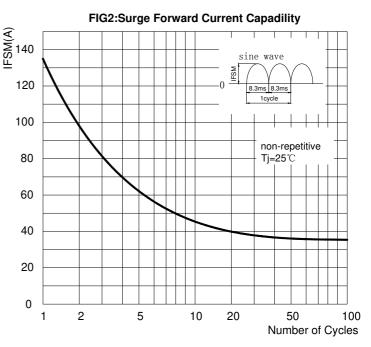


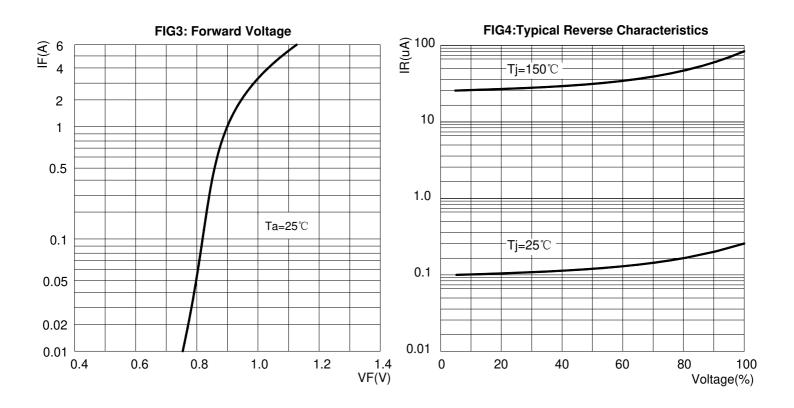
| DIMENSIONS | | | | | | | |
|------------|--------|------|-------|-------|------|--|--|
| | INCHES | | MM | | | | |
| DIM | MIN | MAX | MIN | MAX | NOTE | | |
| Α | .524 | .563 | 13.30 | 14.30 | | | |
| В | .252 | .291 | 6.40 | 7.40 | | | |
| C | .177 | .217 | 4.50 | 5.50 | | | |
| D | .406 | .445 | 10.30 | 11.30 | | | |
| Е | .041 | .057 | 1.05 | 1.45 | | | |
| F | .516 | .531 | 13.10 | 13.50 | | | |
| G | .024 | .033 | 0.60 | 0.85 | | | |
| H | .146 | .154 | 3.70 | 3.90 | | | |
| J | .102 | .142 | 2.60 | 3.60 | | | |
| K | .122 | .134 | 3.10 | 3.40 | | | |
| L | .079 | .087 | 2.00 | 2.20 | | | |
| М | .016 | .024 | 0.40 | 0.60 | | | |



RATING AND CHARACTERISTIC CURVES







2 of 3 **Revision:** A **2015/07/31**



Ordering Information:

| Device | Packing | |
|----------------|--------------------|--|
| Part Number-BP | Bulk: 1.5 Kpcs/Box | |

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

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