



**GLASS PASSIVATED BRIDGE RECTIFIERS**

REVERSE VOLTAGE - 50 to 1000Volts

FORWARD CURRENT - 6.0 Amperes

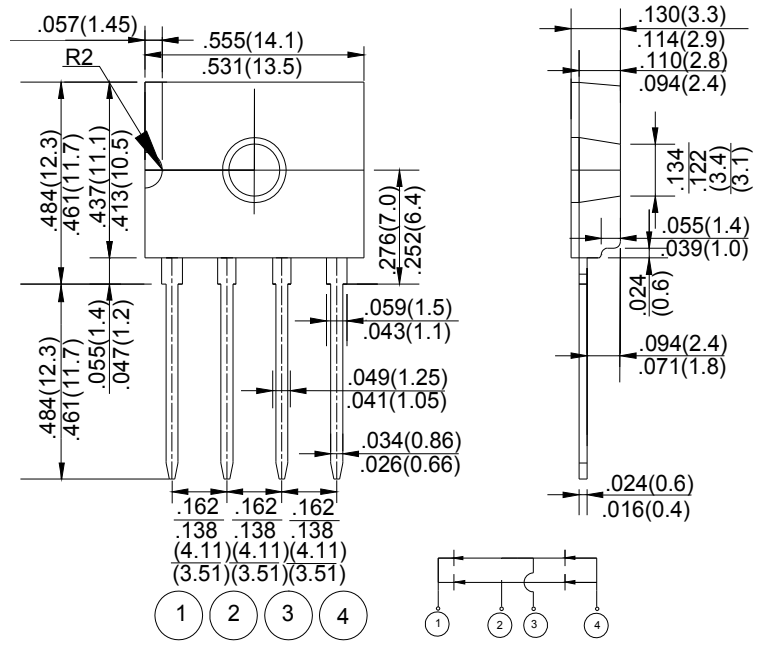
**D3K**

**FEATURES**

- Glass passivated chip junction
- High case dielectric strength
- High surge current capability
- Ideal for printed circuit board

**MACHANICAL DATA**

- Terminal:Plated leads solderable per MIL-STD 202E, Method 208C
- Case:UL-94 Class V-0 recognized Flame Retardant Epoxy
- Polarity:Polarity symbol marked on body
- Mounting position:any



Dimensions in inches and (milimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

| CHARACTERISTICS   | SYMBOL                            | UG6KB05     | UG6KB10 | UG6KB20 | UG6KB40 | UG6KB60 | UG6KB80 | UG6KB100 | UNIT             |
|---|-----------------------------------|-------------|---------|---------|---------|---------|---------|----------|------------------|
| Maximum Recurrent Peak Reverse Voltage  | V <sub>RRM</sub>                  | 50          | 100     | 200     | 400     | 600     | 800     | 1000     | V                |
| Maximum RMS Voltage   | V <sub>RMS</sub>                  | 35          | 70      | 140     | 280     | 420     | 560     | 700      | V                |
| Maximum DC Blocking Voltage   | V <sub>DC</sub>                   | 50          | 100     | 200     | 400     | 600     | 800     | 1000     | V                |
| Maximum Average Forward Rectified Output Current @ T <sub>c</sub> =138°C (with heatsink)          | I <sub>(AV)</sub>                 | 6           |         |         |         |         |         |          | A                |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method) | I <sub>FSM</sub>                  | 135         |         |         |         |         |         |          | A                |
| Maximum Forward Voltage at 2.0A DC  | V <sub>F</sub>                    | 1.0         |         |         |         |         |         |          | V                |
| Maximum Forward Voltage at 4.0A DC  | V <sub>F</sub>                    | 1.1         |         |         |         |         |         |          | V                |
| I <sup>2</sup> t Rating for Fusing (t<8.3ms)  | I <sup>2</sup> t                  | 75.63       |         |         |         |         |         |          | A <sup>2</sup> s |
| Typical Thermal Resistance  | without heatsink R <sub>θJa</sub> | 55          |         |         |         |         |         |          | °C/W             |
|   | with heatsink R <sub>θJc</sub>    | 1.5         |         |         |         |         |         |          |                  |
|   | without heatsink R <sub>θJL</sub> | 15          |         |         |         |         |         |          |                  |
| Maximum DC Reverse Current at Rated DC Blocking Voltage   | @ T <sub>a</sub> =25°C            | 10.0        |         |         |         |         |         |          | μA               |
|   | @ T <sub>a</sub> =125°C           | 500         |         |         |         |         |         |          |                  |
| Operating Temperature Range   | T <sub>J</sub>                    | -55 to +150 |         |         |         |         |         |          | °C               |
| Storage Temperature Range   | T <sub>STG</sub>                  | -55 to +150 |         |         |         |         |         |          | °C               |

NOTES:The typical data above is for reference only(典型值仅供参考).

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

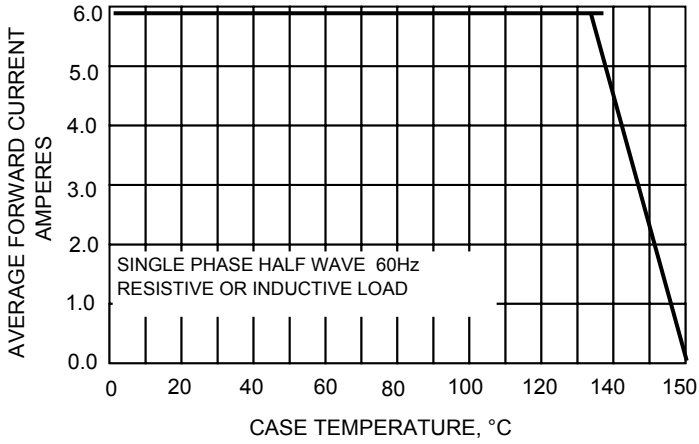


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

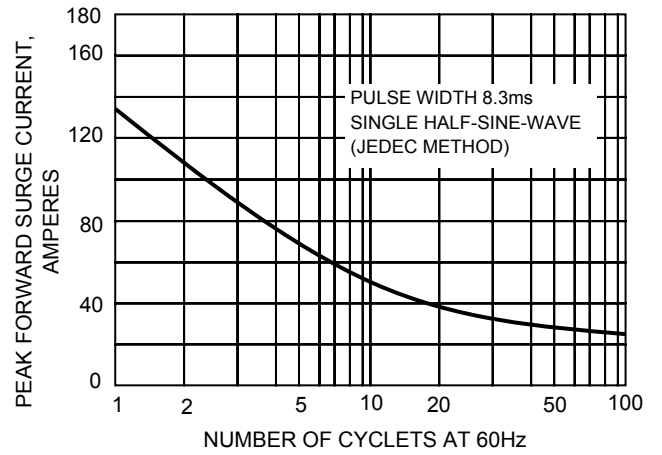


FIG.3-TYPICAL JUNCTION CAPACITANCE

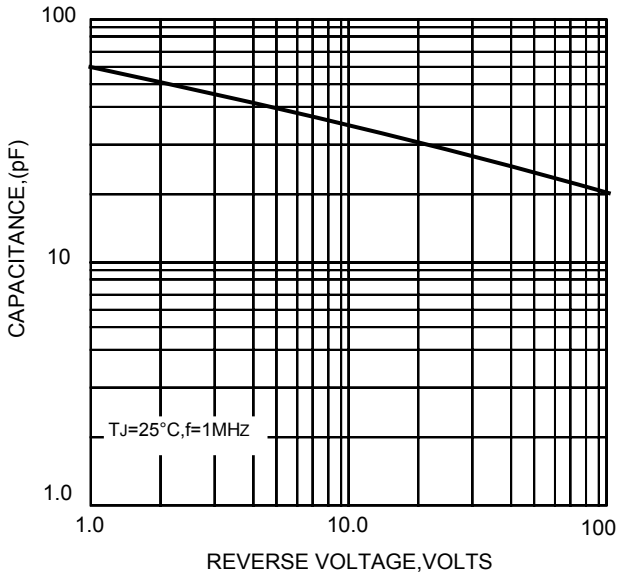


FIG.4-TYPICAL FORWARD CHARACTERISTICS

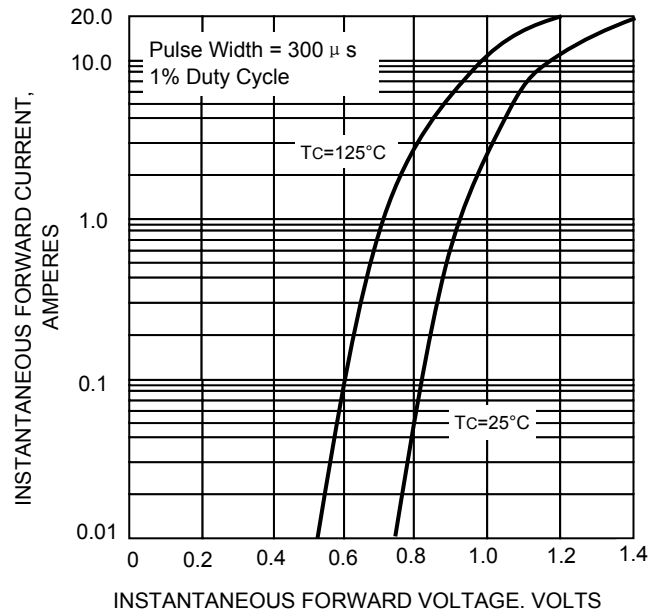
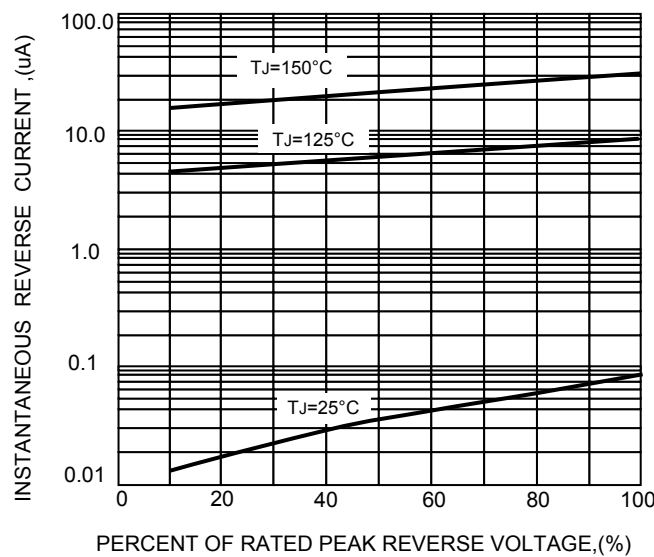


FIG.5-TYPICAL REVERSE CHARACTERISTICS



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!