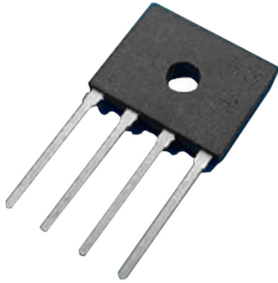


# Glass Passivated Bridge Rectifier

**multicomp** PRO



## Features

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

## Mechanical 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   |
| Reverse Voltage   | : 600 Volts   |
| Forward Current   | : 6 Amperes   |

## 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%

| Characteristic  | Symbol                      | Values          | Unit                 |                           |
|---|-----------------------------|-----------------|----------------------|---------------------------|
| Maximum Recurrent Peak Reverse Voltage  | $V_{RRM}$                   | 600             | V                    |                           |
| Maximum RMS Voltage   | $V_{RMS}$                   | 420             |                      |                           |
| Maximum DC Blocking Voltage   | $V_{DC}$                    | 600             |                      |                           |
| Maximum Average Forward Rectified Output Current<br>@ $T_c = 140^\circ\text{C}$ (with heatsink)         | $I_{(AV)}$                  | 6               | A                    |                           |
| Peak Forward Surge Current<br>8.3ms Single Half Sine-Wave<br>Super Imposed on Rated Load (JEDEC Method) | $I_{FSM}$                   | 170             |                      |                           |
| Maximum Forward Voltage at 3A DC  | $V_F$                       | 0.92            | V                    |                           |
| $I^2t$ Rating for Fusing ( $t < 8.3\text{ms}$ )   | $I^2t$                      | 93              | $\text{A}^2\text{s}$ |                           |
| Typical Thermal Resistance  | without heatsink            | $R_{\theta JA}$ | 55                   | $^\circ\text{C}/\text{W}$ |
|   | with heatsink               | $R_{\theta JC}$ | 127                  |                           |
|   | without heatsink            | $R_{\theta JL}$ | 15                   |                           |
| Maximum DC Reverse Current<br>at Rated DC Blocking Voltage  | @ $T_A = 25^\circ\text{C}$  | $I_R$           | 10                   | $\mu\text{A}$             |
|   | @ $T_A = 125^\circ\text{C}$ |                 | 500                  |                           |
| Operating Temperature Range   | $T_J$                       | -55 to +150     | $^\circ\text{C}$     |                           |
| Storage Temperature Range   | $T_{STG}$                   |                 |                      |                           |

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# Glass Passivated Bridge Rectifier

## Rating and Characteristic Curves

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

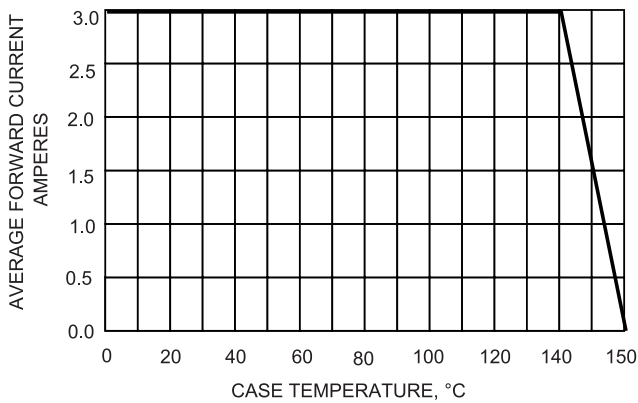


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

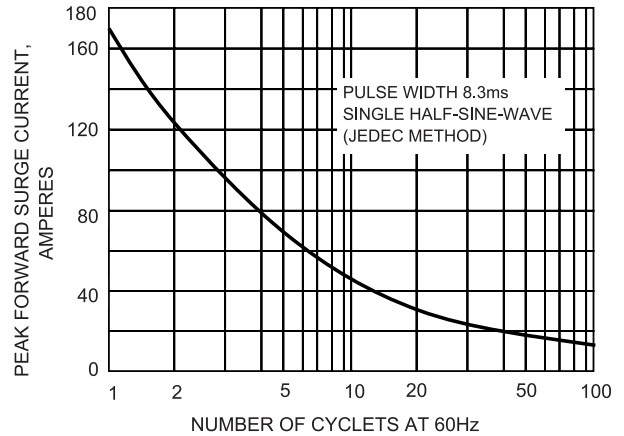


FIG.3-TYPICAL FORWARD CHARACTERISTICS

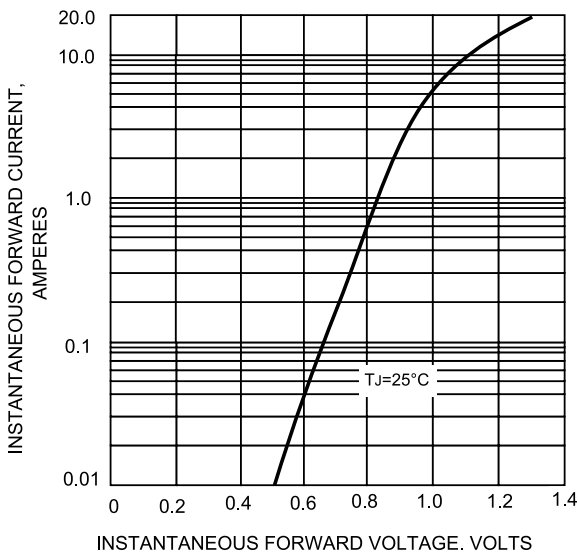
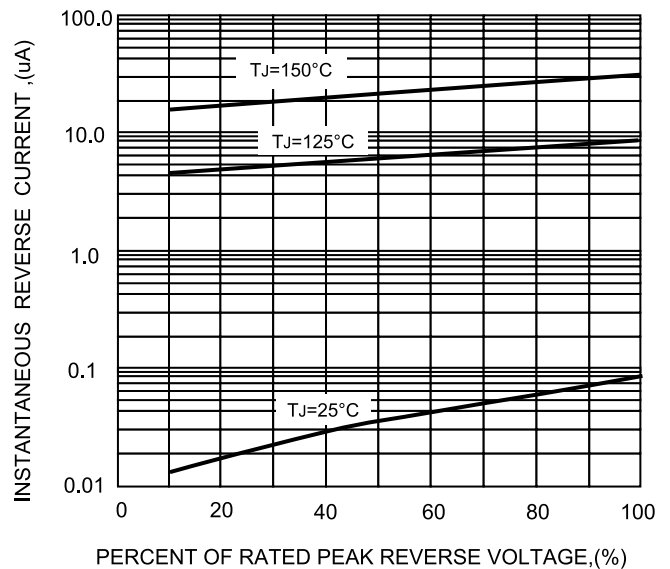


FIG.5-TYPICAL REVERSE CHARACTERISTICS

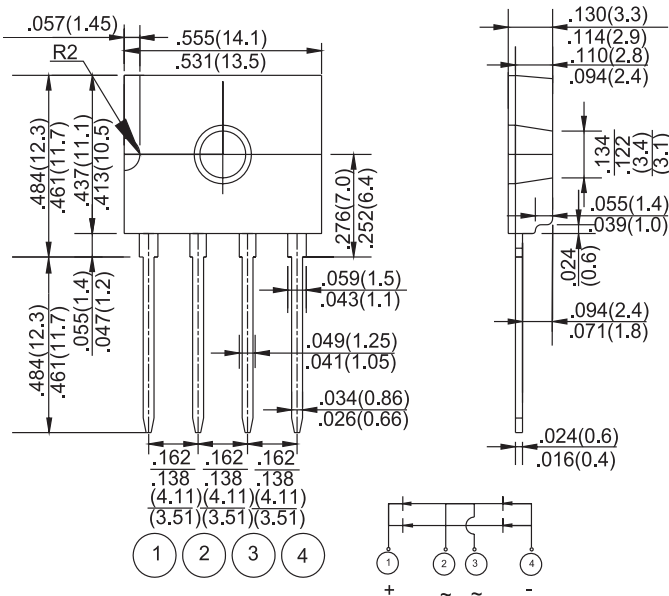


# Glass Passivated Bridge Rectifier

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## Dimension:

**D3K**



Dimensions : Inches (Millimetres)

## Part Number Table

| Description                       | Part Number |
|-----------------------------------|-------------|
| Glass Passivated Bridge Rectifier | D6KB6L      |

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