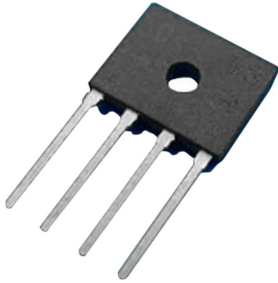


Glass Passivated Bridge Rectifier

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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 @ $T_c = 140^\circ\text{C}$ (with heatsink) | $I_{(AV)}$ | 6 | A | |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave 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 | A^2s | |
| 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 at Rated DC Blocking Voltage | @ $T_A = 25^\circ\text{C}$ | I_R | 10 | μA |
| | @ $T_A = 125^\circ\text{C}$ | | 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

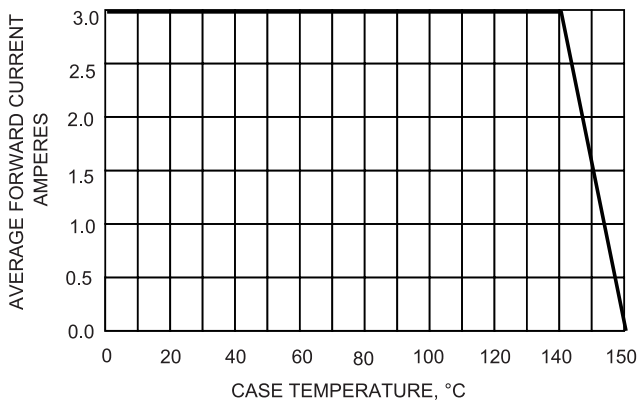


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

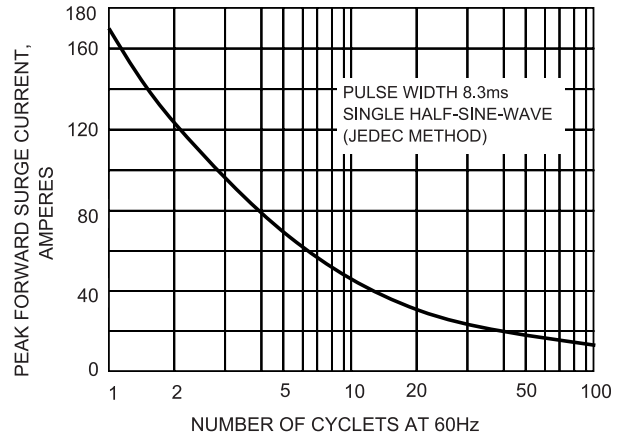


FIG.3-TYPICAL FORWARD CHARACTERISTICS

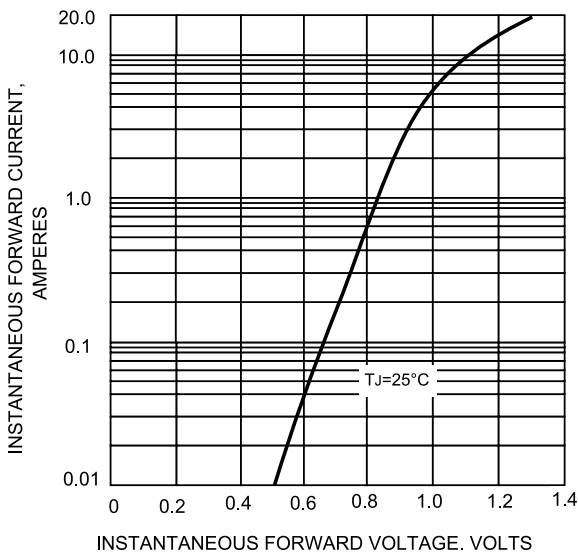
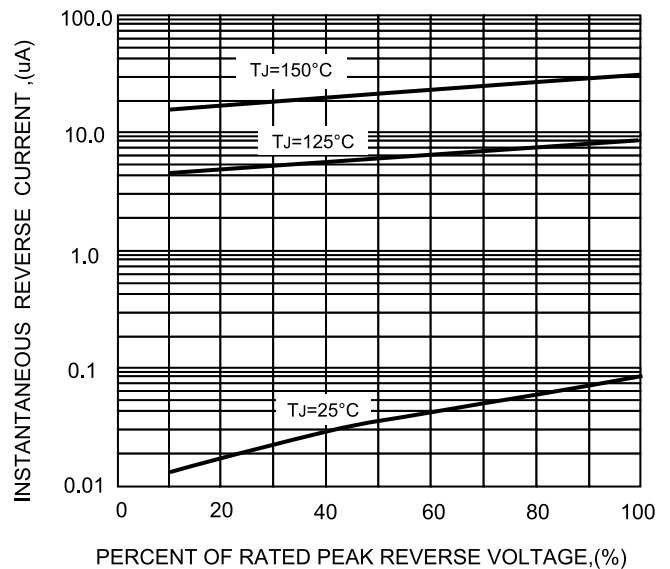


FIG.5-TYPICAL REVERSE CHARACTERISTICS

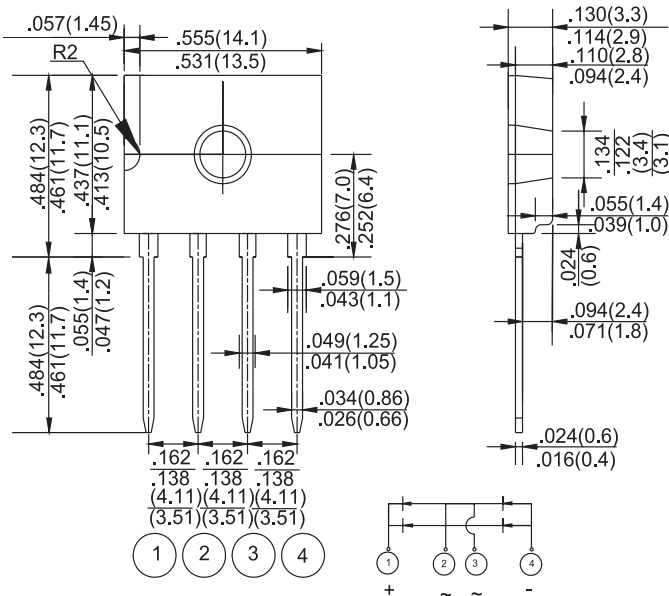


Glass Passivated Bridge Rectifier

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Dimension:

D3K



Dimensions : Inches (Millimetres)

Part Number Table

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

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