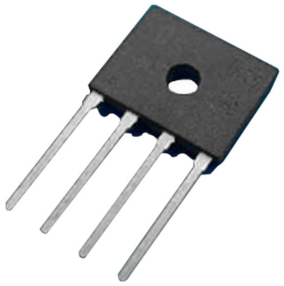
Glass Passivated Bridge Rectifier



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 Flane 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°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	0.89	V
Maximum Forward Voltage at 3A DC		0.9	
I^2t Rating for Fusing (t<8.3ms)	I^2t	93	A^2s
Typical Thermal Resistance without heatsink with heatsink without heatsink	$R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$	55 2.5 15	°C/W
Maximum DC Reverse Current @ T_A = 25°C at Rated DC Blocking Voltage @ T_A = 125°C	I_R	10 500	µA
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}		

Rating and Characteristic Curves

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

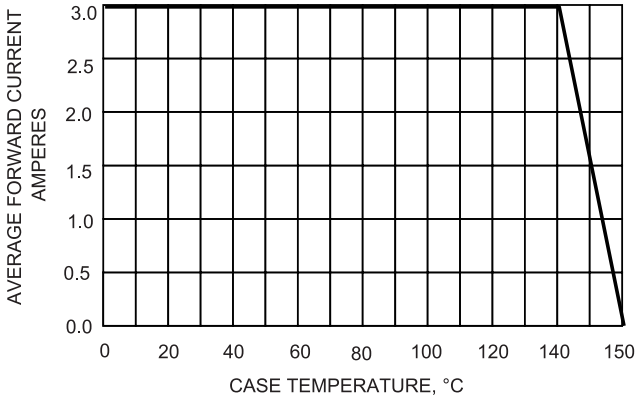


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

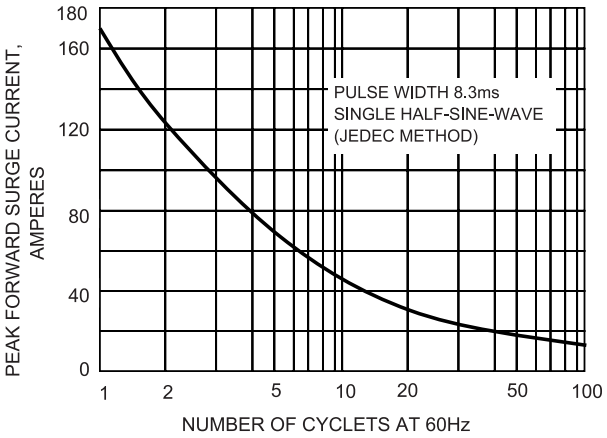


FIG.3-TYPICAL FORWARD CHARACTERISTICS

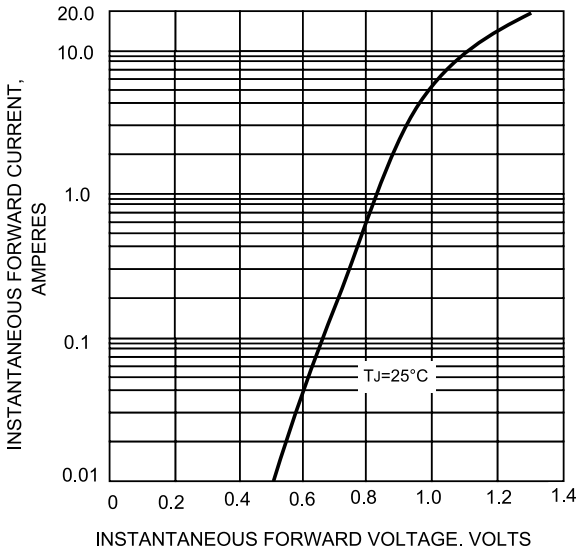
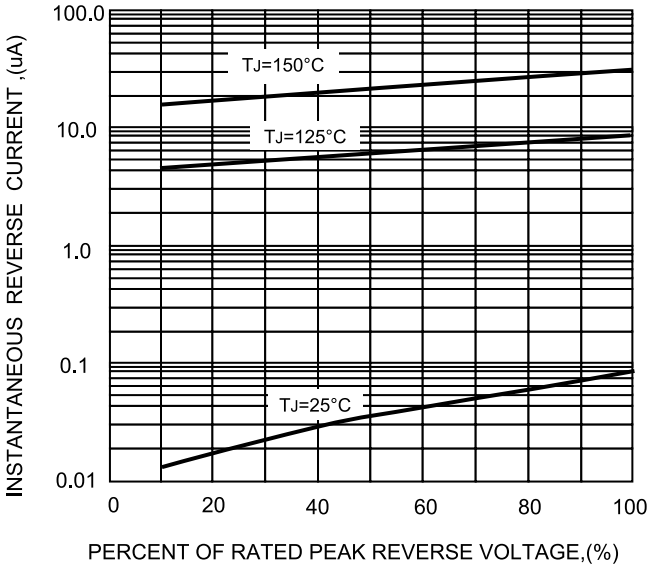
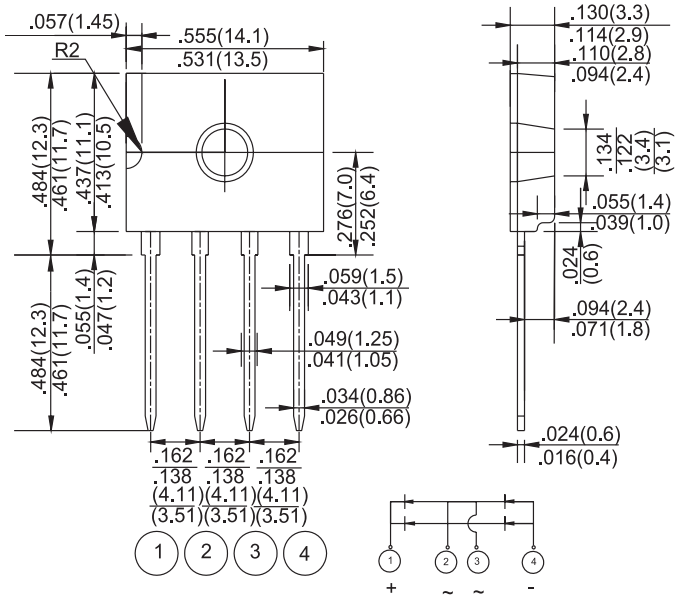


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Dimension:

D3K



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Glass Passivated Bridge Rectifier	D6KB6U

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