

## 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	$V_F$	0.89	V	
Maximum Forward Voltage at 3A DC		0.9		
$I^2t$ 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	$R_{\theta JC}$	2.5	
	without heatsink	$R_{\theta JL}$	15	
Maximum DC Reverse Current at Rated DC Blocking Voltage		@ $T_A = 25^\circ\text{C}$	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	$T_{STG}$			

## Rating and Characteristic Curves

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

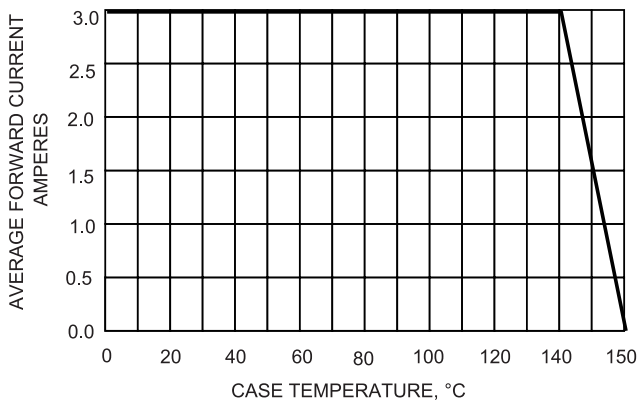


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

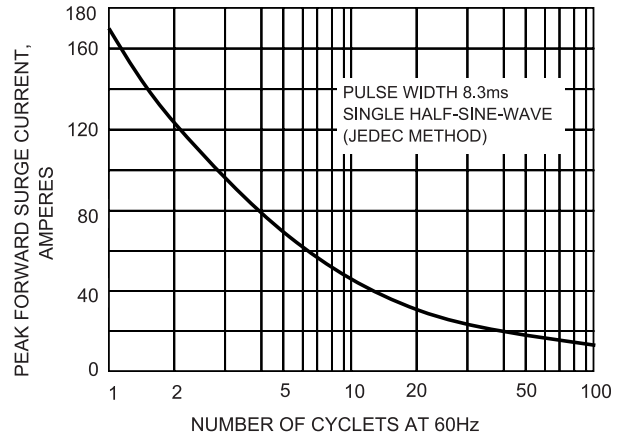


FIG.3-TYPICAL FORWARD CHARACTERISTICS

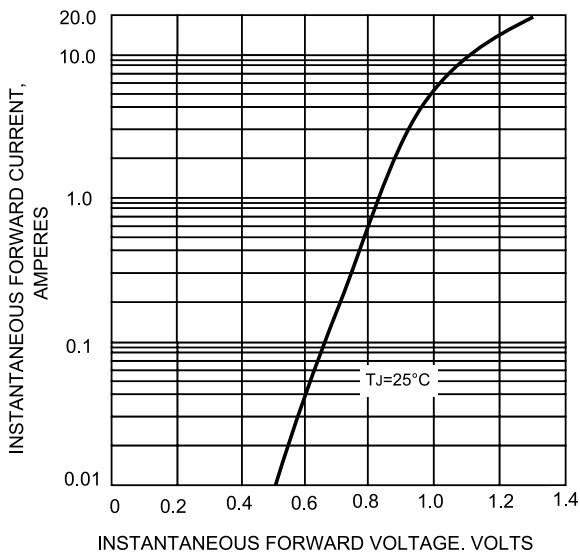
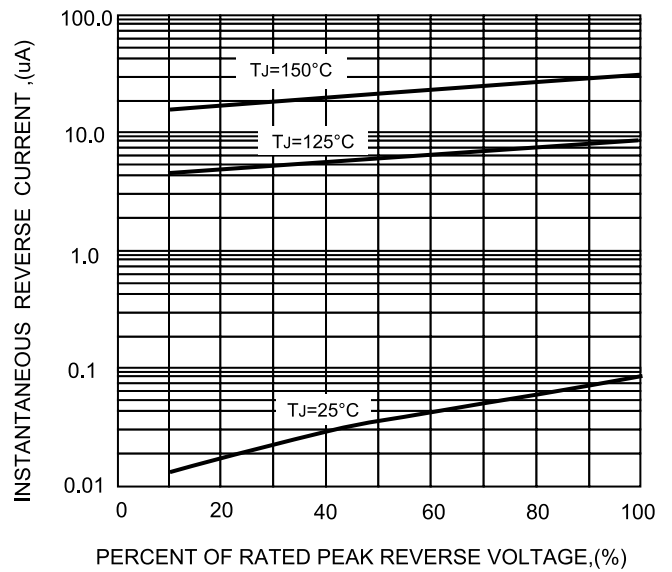


FIG.5-TYPICAL REVERSE CHARACTERISTICS

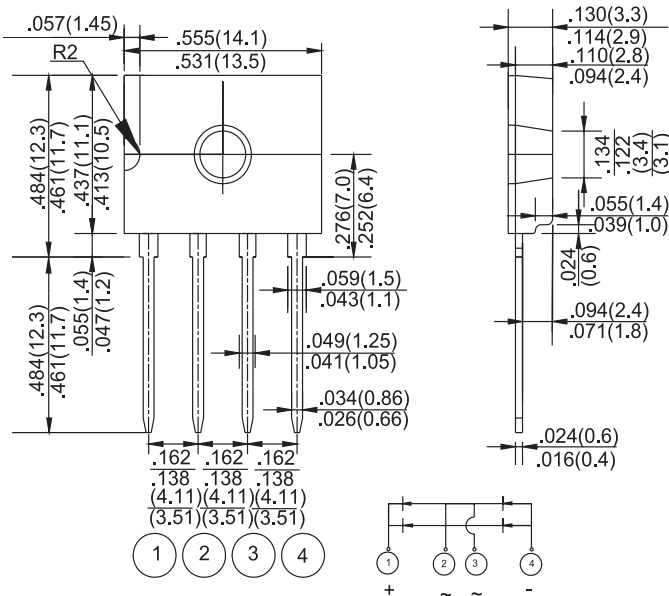


# Glass Passivated Bridge Rectifier



## Dimension:

**D3K**



Dimensions : Inches (Millimetres)

## Part Number Table

Description	Part Number
Glass Passivated Bridge Rectifier	D6KB6U

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