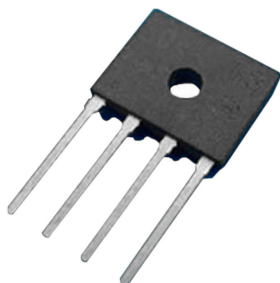


Glass Passivated Bridge Rectifier

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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	: 4 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 @ $T_c = 138^{\circ}\text{C}$ (with heatsink)	$I_{(AV)}$	4	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	135	
Maximum Forward Voltage at 4A DC	V_F	0.92	V
I^2t Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	76	A^2s
Typical Thermal Resistance	without heatsink	$R_{\theta JA}$	$^{\circ}\text{C/W}$
	with heatsink	$R_{\theta JC}$	
	without heatsink	$R_{\theta JL}$	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	@ $T_A = 25^{\circ}\text{C}$ 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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Rating and Characteristic Curves

FIG.1-DERATING CURVE OUTPUT
RECTIFIED CURRENT

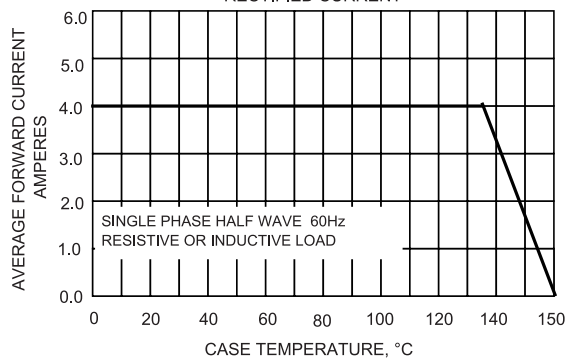


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

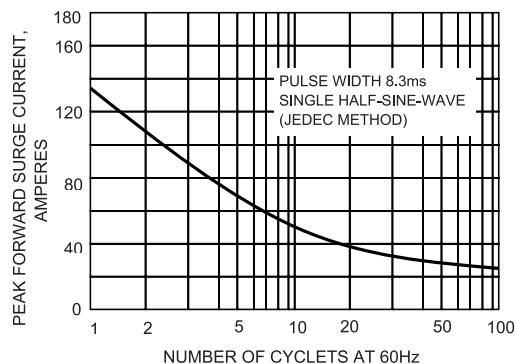


FIG.3-TYPICAL JUNCTION CAPACITANCE

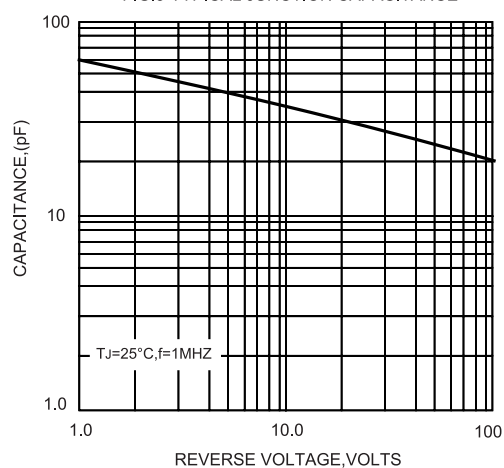


FIG.4-TYPICAL FORWARD CHARACTERISTICS

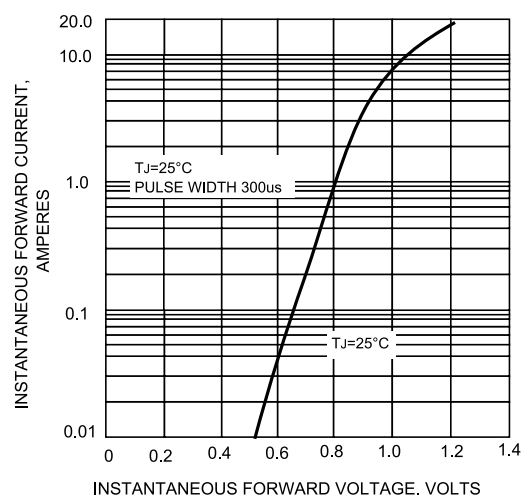
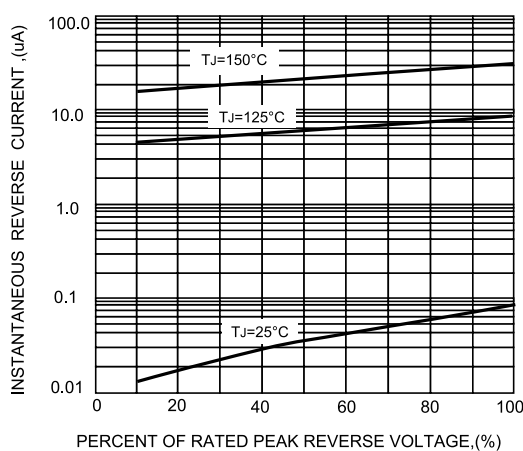


FIG.5-TYPICAL REVERSE CHARACTERISTICS

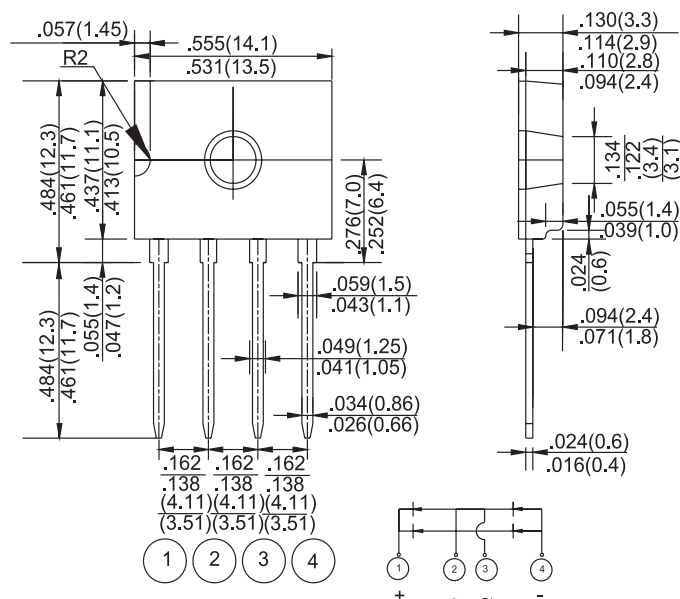


Glass Passivated Bridge Rectifier

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Dimension:

D3K



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Glass Passivated Bridge Rectifier	D4KB6L

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