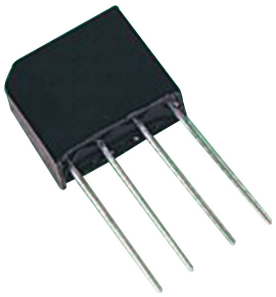
Glass Passivated
Bridge Rectifier



Features

- Surge overload rating -125 Amperes peak
- Ideal for printed circuit board
- Plastic material has UL flammability classification 94V-0

Mechanical Data

Mounting Position : Any
Reverse Voltage : 100 to 200 Volts
Forward Current : 4 Ampere

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%.

Characteristics	Symbol	KBL01G	KBL02G	Unit
Max. Recurrent Peak Reverse Voltage	V_{RRM}	100	200	V
Max. RMS Bridge Input Voltage	V_{RMS}	70	140	
Max. DC Blocking Voltage	V_{DC}	100	200	
Max. Average Forward Output Current at 50°C T_A (Note 1)	$I_{(AV)}$	4		A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I_{FSM}	125		A
Max. Forward Voltage Drop Per Element at 4 A Peak	V_F	1.1		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	10		µA
Max. Reverse Current at Rated DC Blocking Voltage and 150°C T_A	I_R	1		nS
Operating Temperature Range	T_J	-55 to +150		°C
Storage Temperature Range	T_{STG}	-55 to +150		°C

Notes : 1. Measured with I_F = 0.5A, I_R = 1A, I_{RR} = 0.25A
2. Measured at 1MHz and applied reverse voltage of 4V DC
3. Thermal resistance junction to ambient.
4. The typical data above is for reference only

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Ratings and Characteristic Curves

FLG.1-MAXIMUM FORWARD SUNRGE CURRENT

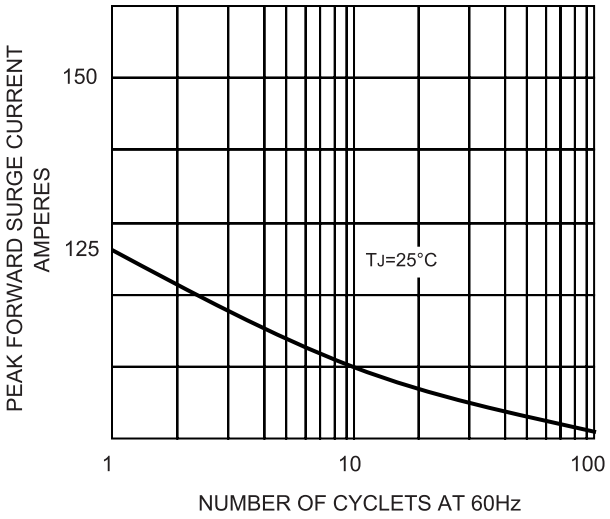


FIG.2-DERATING CURVE
OUTPUT RECTIFIED CURRENT

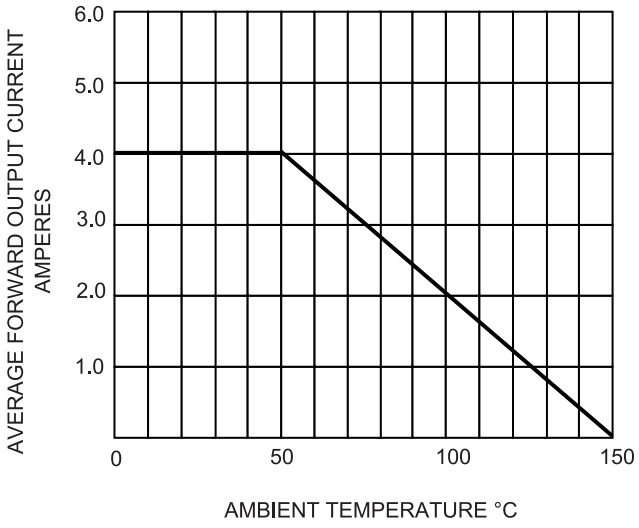


FIG.3-TYPICAL FORWARD CHARACTERISTICS

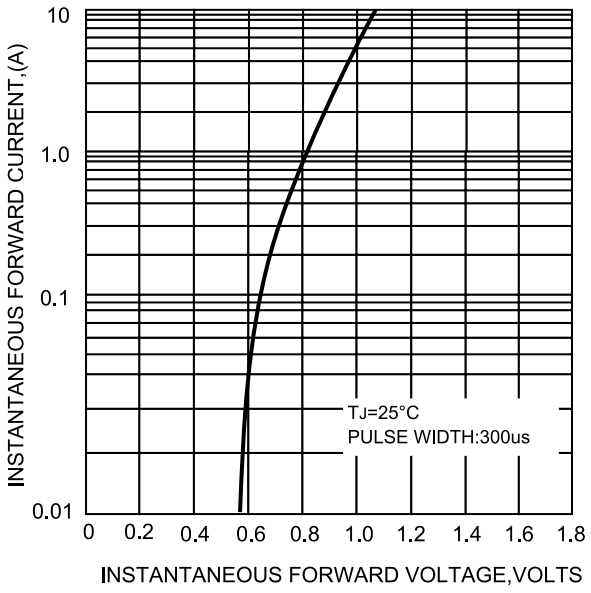
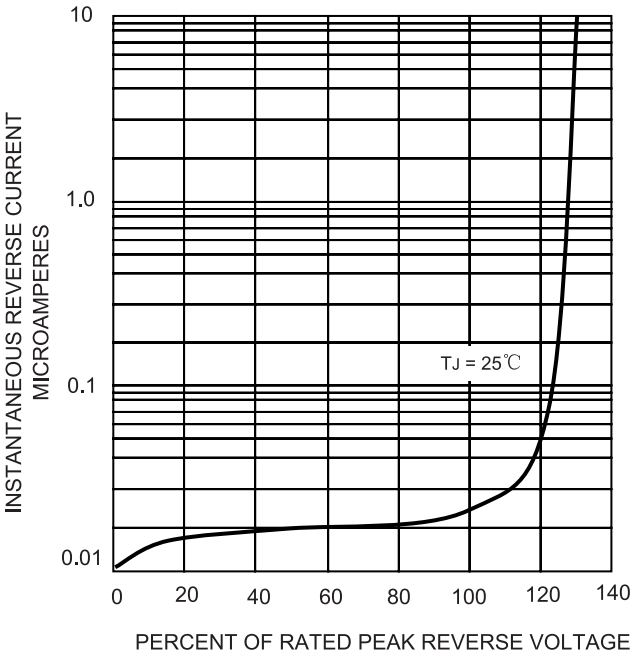


FIG.4– TYPICAL REVERSE
CHARACTERISTICS



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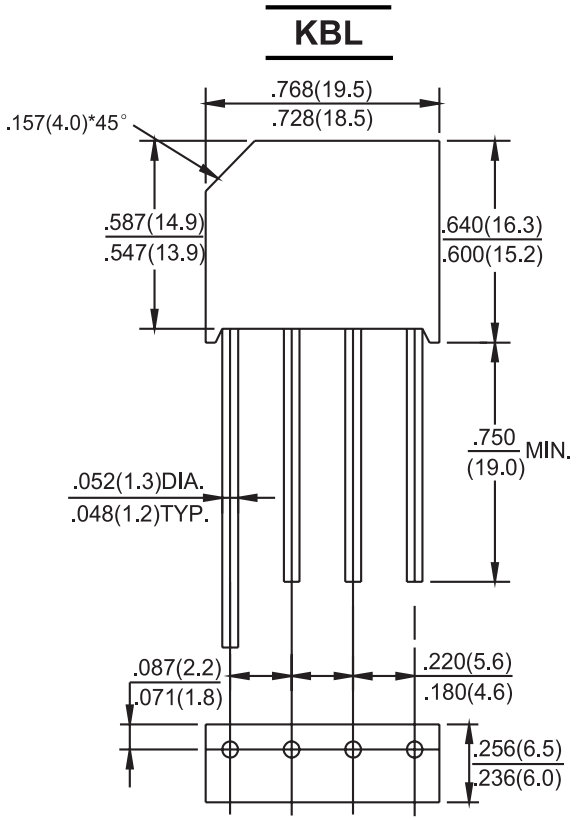
Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Glass Passivated Bridge Rectifiers, 4A 200V	KBL02G
Glass Passivated Bridge Rectifiers, 4A 100V	KBL01G