



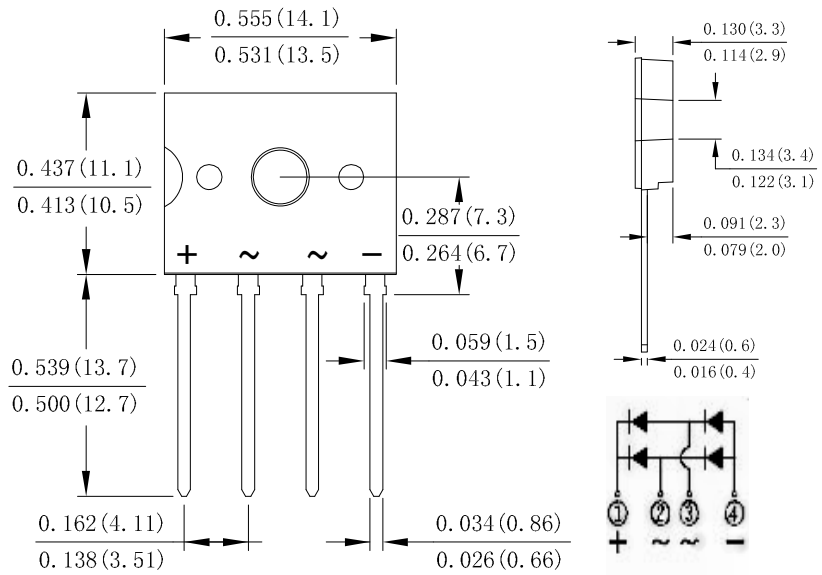
UG2KB05 THRU UG2KB100

Single Phase 2.0AMP Glass Passivated Bridge Rectifier

Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic material-UL flammability 94V-0

Case: D3K



Dimensions in inches and (millimeters)

Mechanical Data

- Case: D3K,molded plastic
- Terminal: Plated leads solderable per MIL-STD 202,Method 208
- Polarity: As Marked on case
- Mounting Position:Any
- Marking: Type Number
- Lead Free: For RoHS/Lead Free Version

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%.

TYPE NUMBER	SYMBOL	UG2K B05	UG2K B10	UG2K B20	UG2K B40	UG2K B60	UG2K B80	UG2K B100	UNIT	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM}								V	
	V_{RWM}	50	100	200	400	600	800	1000		
	V_{DC}									
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V	
Average Rectified Output Current	$I_{F(AV)}$	Without heat sink @ $T_C=90^\circ C$				1.0				A
		With heat sink @ $T_C=90^\circ C$				2.0				
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}					60				A
10000 times of the wave surge current (time width1ms, time interval 3s)	I_{FSM}					42				A
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t					14.94				A^2s
Forward Voltage per element @ $I_F=2.0A$	V_{FM}					1.1				V
Maximum DC reverse current at $T_J=25^\circ C$ rated DC blocking voltage per leg $T_J=125^\circ C$	I_R					5.0 200				μA
Dielectric Strength	Vids					2000				V
The proposed installation torque Max torque	Tor					5.0 8.0				Kgf.cm
Typical Junction Capacitance	C_J					25				pF
Typical thermal resistance	$R_{\theta JA}$					55				$^\circ C/W$
	$R_{\theta JL}$					15				
Operating and Storage Temperature Range	T_J, T_{STG}					-55 to +150				$^\circ C$



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Fig. 1 Forward Current Derating Curve

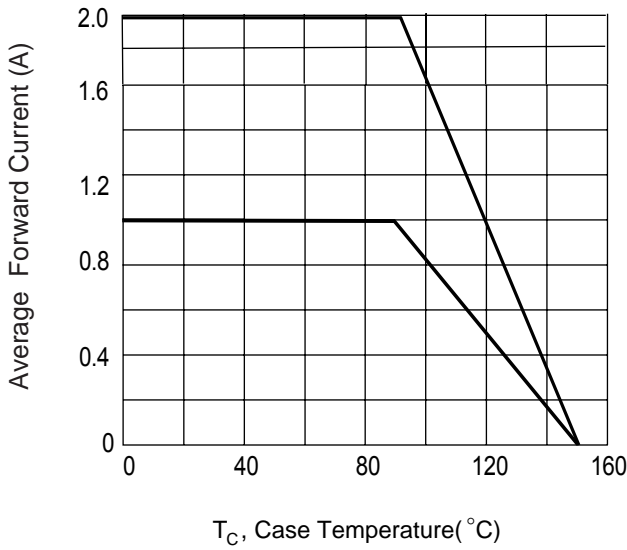


Fig. 2 Typ. Forward Characteristics

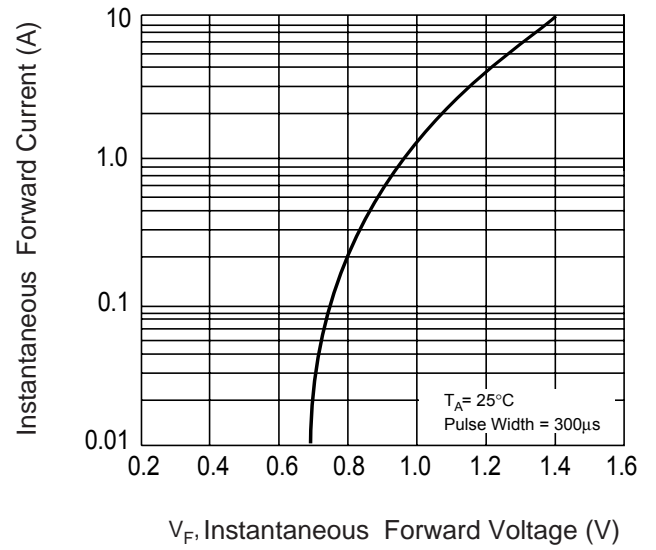


Fig.3 Maximum Peak Forward Surge Current

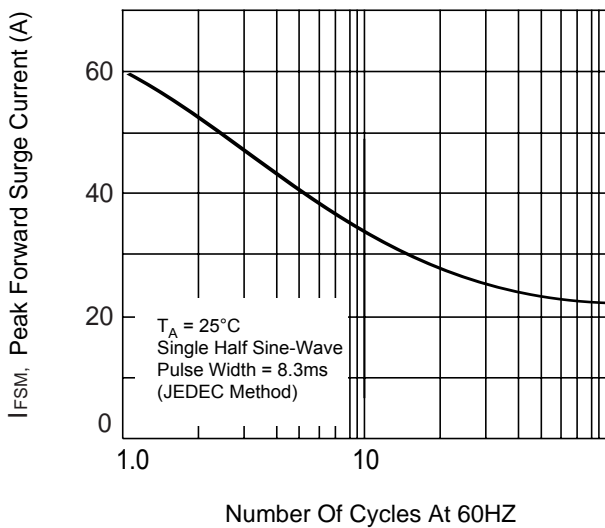


Fig. 4 Typical Junction Capacitance

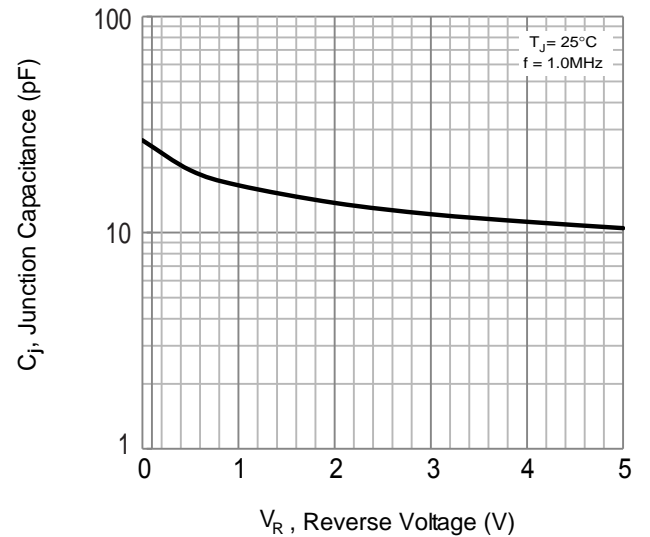
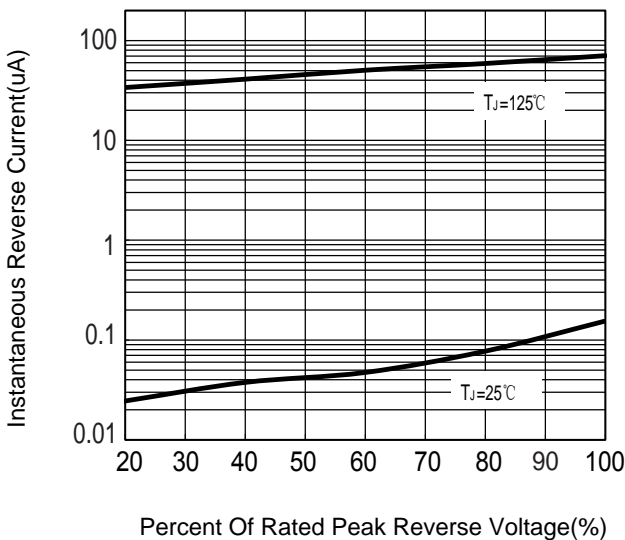


Fig.5 Typical Reverse Characteristics





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