



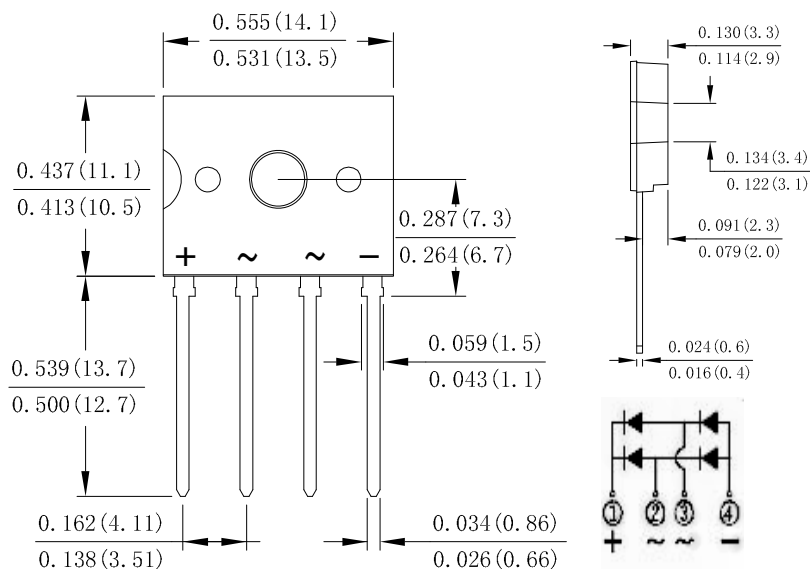
UG8KB05A THRU UG8KB100A

Single Phase 8.0AMP Glass Passivated Bridge Rectifier

Features

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

Case: D3K



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

Dimensions in inches and (millimeters)

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	UG8K B05A	UG8K B10A	UG8K B20A	UG8K B40A	UG8K B60A	UG8K B80A	UG8K B100A	UNIT
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
	V _{RWM}								
	V _{DC}								
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current	Without heat sink @T _c =90℃ With heat sink @T _c =90℃	IF(AV)	4.0 8.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150							A
I ² t Rating for Fusing (t < 8.3ms)	I ² t	93.375							A ² s
Forward Voltage per element @IF=8.0A	V _{FM}	1.1							V
Maximum DC reverse current at T _J =25℃ rated DC blocking voltage per leg T _J =125℃	I _R	5.0 500							uA
Dielectric Strength	V _{ids}	2500							V
The proposed installation torque Max torque	Tor	5.0 8.0							Kgf.cm
Typical Junction Capacitance(Note 1)	C _J	45							pF
Typical thermal resistance	R _{θJA}	55							℃/W
	R _{θJL}	15							
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150							℃

Note: 1. Device mounted on 50mm*50mm*1.6mm Cu plate heatsink.



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Fig. 1 Forward Current Derating Curve

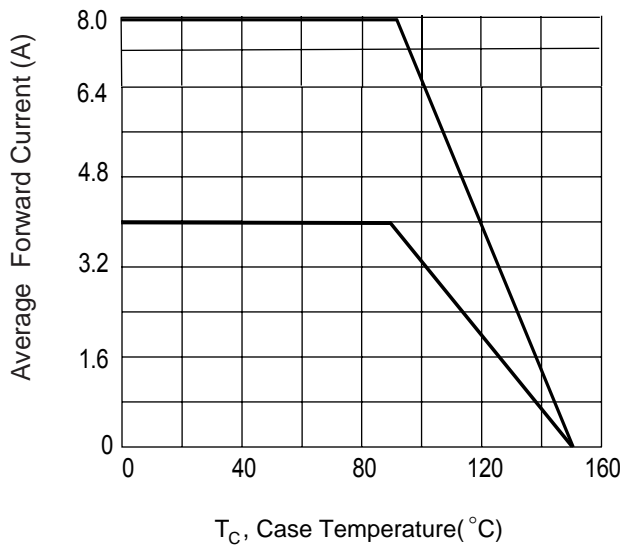


Fig. 2 Typ. Forward Characteristics

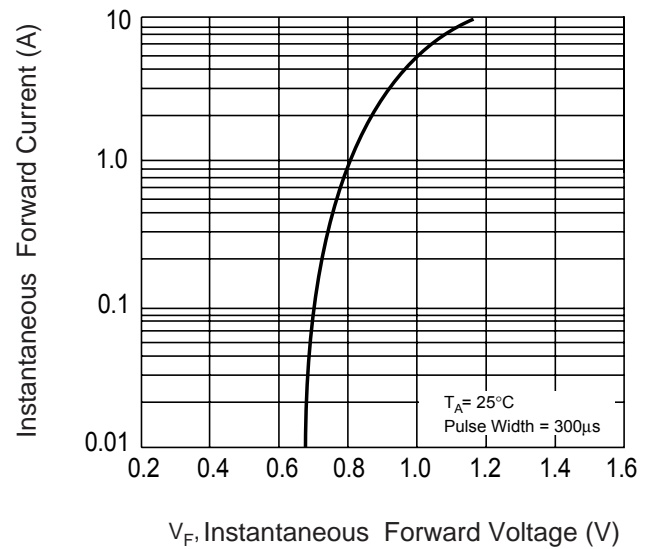


Fig.3 Maximum Peak Forward Surge Current

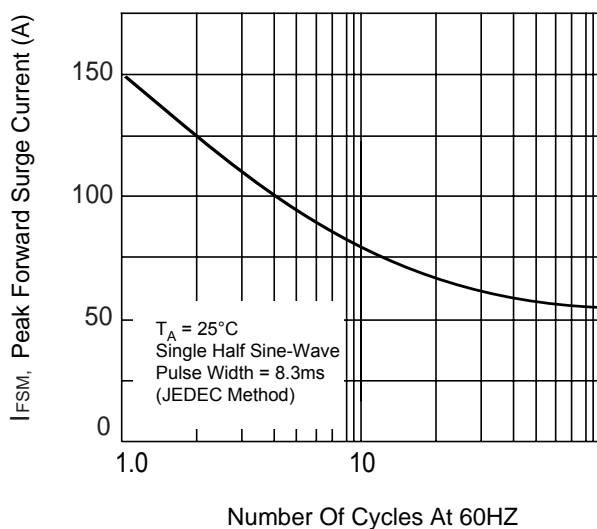


Fig . 4 Typical Junction Capacitance

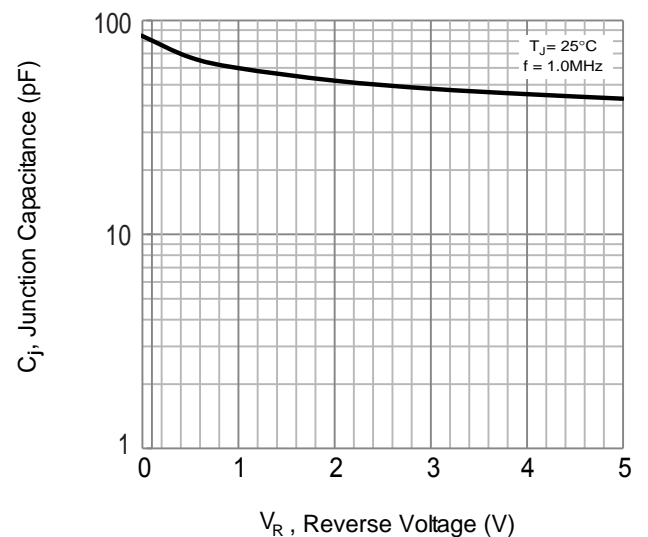
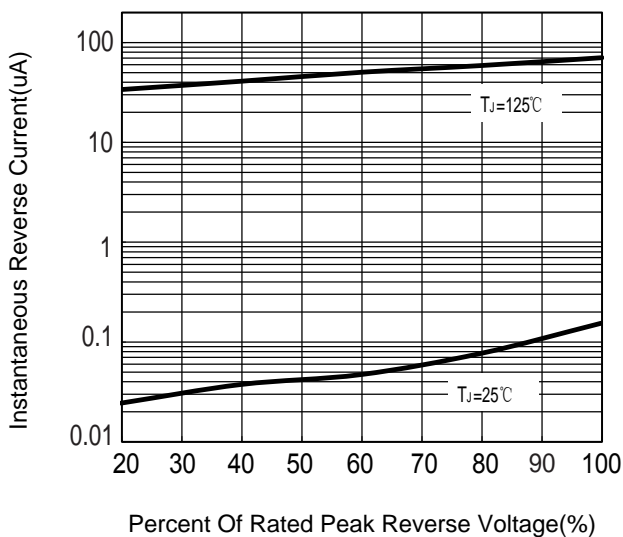


Fig.5 Typical Reverse Characteristics





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