

Green Products

UG2KB05 THRU UG2KB100 Single-Phase 2.0A Glass Passivated Bridge Rectifier

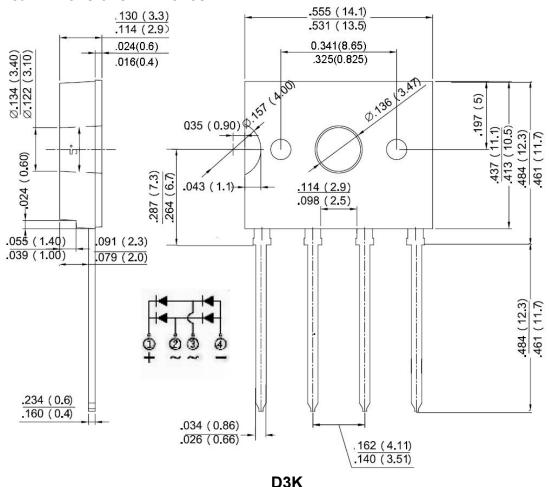
Features:

- Glass passivated die construction
- Low forward voltage drop
- · High current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-0

Mechanical Data:

- Case: D3K, Molded plastic
- Terminals: 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

Mechanical Dimensions: In Inches/mm



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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%.

Maximum Ratings:

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 _{RWM} V _{DC}	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average Rectified Without heat sink $@T_A = 30^{\circ}C$ Output Current With heat sink $@T_A = 140^{\circ}C$	Io	1.0 2.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	60							А

Electrical Characteristics:

Type Number	Symbol	UG2K B05	UG2K B10	UG2K B20	UG2K B40	UG2K B60	UG2K B80	UG2K B100	Unit
Forward Voltage (per element) @I _F =2.0A	V _F	1.1							V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	I _R	5.0 500							μΑ
Typical Junction Capacitance(per leg) (Note 1)	Сл	21							pF

Thermal-Mechanical Specifications:

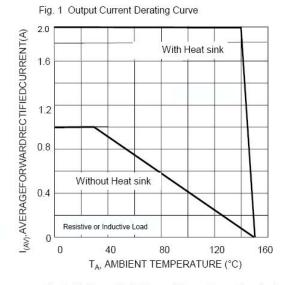
Type Number	Symbol	UG2K B05	UG2K B10	UG2K B20	UG2K B40	UG2K B60	UG2K B80	UG2K B100	Unit
Typical Thermal Resistance (per leg)	R _{0JA} R _{0JL}	55 15							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C

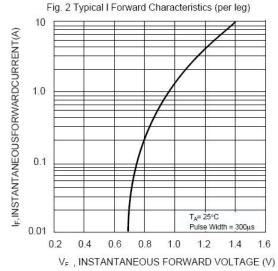
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

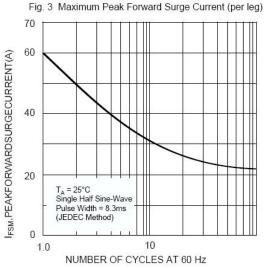
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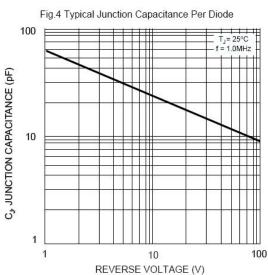


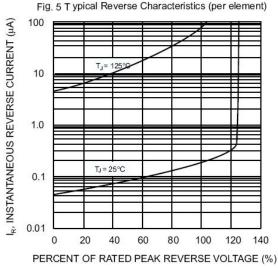
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