

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
- · Designed for surface mount application
- Plastic material-UL flammability 94V-0

Mechanical Data

· Case: D3K,molded plastic

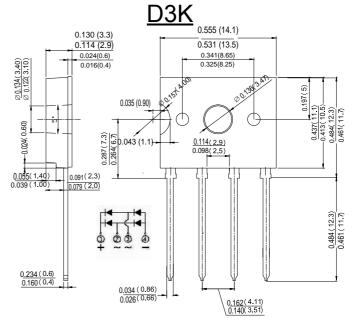
 Terminal: Plated leads solderable per MIL-STD 202, Method 208

Polarity: As Marked on case

Mounting Position:Any

Marking: Type Number

· Lead Free: For RoHS/Lead Free Version



Dimiensions in inches and (milimeters)

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%.

SYMBOL	UG2K B05	UG2K B10	UG2K B20	UG2K B40	UG2K B60	UG2K B80	UG2K B100	UNIT
V_{RRM}								
V_{RWM}	50	100	200	400	600	800	1000	V
V _{DC}	•							
V_{RMS}	35	70	140	280	420	560	700	V
I _{F(AV)}	1.0 2.0							Α
I _{FSM}	60						Α	
l ² t	14.94						A ² s	
V_{FM}	1.1							V
I _R	5.0 500						uA	
CJ	21						pF	
$R_{\theta JA}$	55							°C/W
$R_{\theta JL}$	15							
$T_{J,}T_{STG}$	-55 to +150							$^{\circ}$ C
	$\begin{array}{c} V_{RRM} \\ V_{RWM} \\ V_{DC} \\ \end{array}$ $\begin{array}{c} I_{F(AV)} \\ \end{array}$ $\begin{array}{c} I^2 t \\ V_{FM} \\ \end{array}$ $\begin{array}{c} I_R \\ \end{array}$ $\begin{array}{c} C_J \\ R_{\theta JA} \\ R_{\theta JL} \\ \end{array}$	V _{RM} V _{RWM} V _{DC} V _{RMS} 35 I _{F(AV)} I ² t V _{FM} I _R C _J R _{θJA}	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	STIMBOL B05 B10 B20	STIMBOL B05 B10 B20 B40 V_{RRM} V_{RWM}	Name	Name	STIMBOL B05 B10 B20 B40 B60 B80 B100 V_{RRM V_{RWM} V_{DC} V_{DC} V_{RMS 35 70 140 280 420 560 700 I_{F(AV) 2.0

Note: 1.Measured at 1.0 MHZ and applied reverse voltage of 4.0VD.C.



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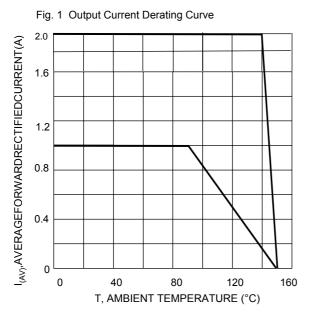


Fig. 3 Maximum Peak Forward Surge Current (per leg)

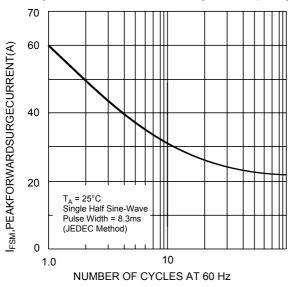


Fig. 5 T ypical Reverse Characteristics (per element)

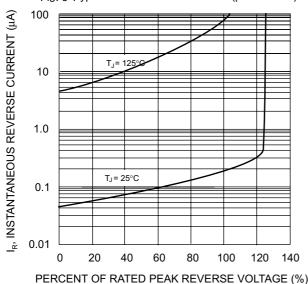


Fig. 2 Typical I Forward Characteristics (per leg)

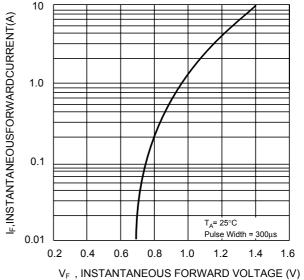
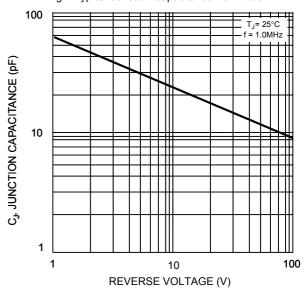


Fig.4 Typical Junction Capacitance Per Diode





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