

UG4KB05 THRU UG4KB100

SINGLE PHASE4.0AMP 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

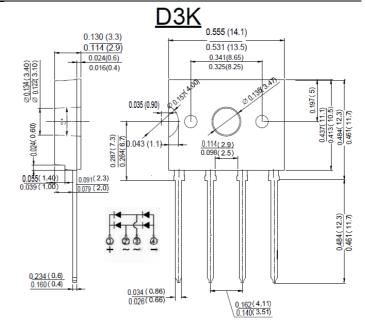
 Terminal: Plated leads solderable per MIL-STD 202.Method 208

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%.

TYPE NUMBER	SYMBOL	UG4K B05	UG4K B10	UG4K B20	UG4K B40	UG4K B60	UG4K B80	UG4K 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 $@T_c = 90^{\circ}C$ Output Current With heat sink $@T_c = 90^{\circ}C$	IF(AV)	2.0 4.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	120						А	
²t Rating for Fusing (t < 8.3ms)	l ² t	59.76						A ² s	
Forward Voltage per element @IF=4.0A	V_{FM}	1.1							V
Maximum DC reverse current at T_A =25°C rated DC blocking voltage per leg T_A =125°C	I _R	5.0 500							uA
Typical Juntion Capacitance per leg	CJ	21							pF
Typical thermal resistance per leg(Note 1)	$R_{\theta JA}$	55							°C/W
	$R_{\theta JL}$	15							
Operating and Storage Temperature Range	T_{J}, T_{STG}	-55 to +150							$^{\circ}\!\mathbb{C}$

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



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IF,INSTANTANEOUSFORWARDCURRENT(A)

0.01

0.2

0.4

0.6

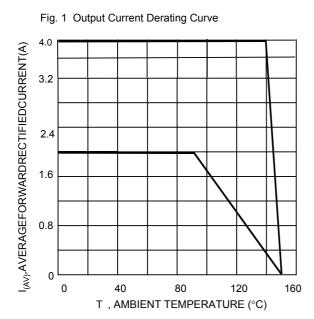


Fig. 3 Maximum Peak Forward Surge Current (per leg)

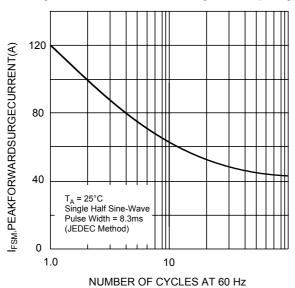


Fig. 5 T ypical Reverse Characteristics (per element)

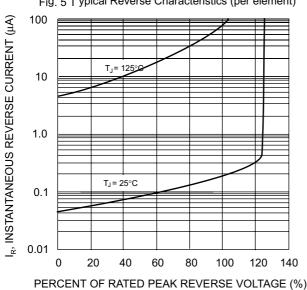


Fig. 2 Typical I Forward Characteristics (per leg) 1.0 0.1

T_A= 25°C

1.2

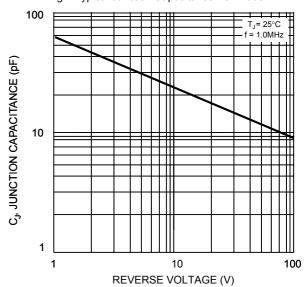
1.4

Fig.4 Typical Junction Capacitance Per Diode

8.0

1.0

V_F, INSTANTANEOUS FORWARD VOLTAGE (V)



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