

UG6KB10 THRU UG6KB100

SINGLE PHASE 6.0AMP 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

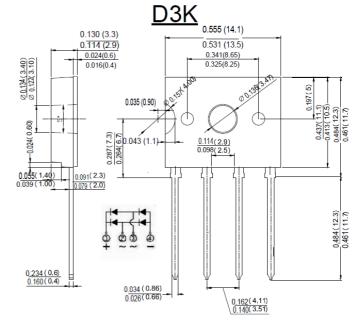
 Terminal: Plated leads solderable per MIL-STD 202, Method 208

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	UG6K B05	UG6K B10	UG6K B20	UG6K B40	UG6K B60	UG6K B80	UG6K B100	UNIT
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM}	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)	3.0 6.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150							Α
² t Rating for Fusing (t < 8.3ms)	l²t	93.375						A ² s	
Forward Voltage per element @IF=6.0A	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	C _J	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							$^{\circ}$

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

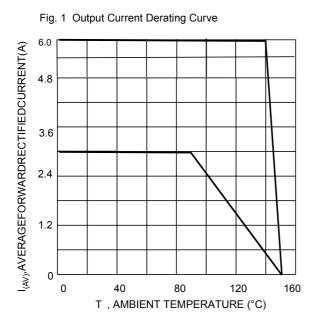


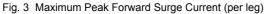
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IF, INSTANTANEOUSFORWARDCURRENT(A)

0.01

0.2





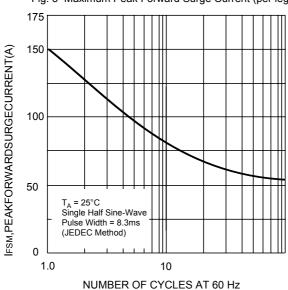


Fig. 5 T ypical Reverse Characteristics (per element)

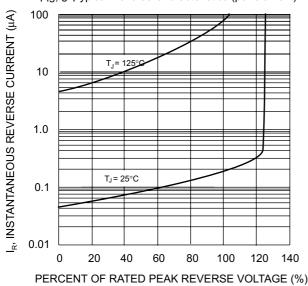


Fig. 2 Typical I Forward Characteristics (per leg) 1.0 0.1 Pulse Width = 300μs

Fig.4 Typical Junction Capacitance Per Diode

8.0

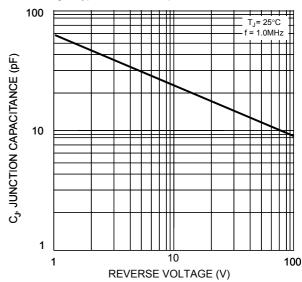
1.0

V_F, INSTANTANEOUS FORWARD VOLTAGE (V)

1.2

1.4

0.6





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