UG4KB05 THRU UG4KB100

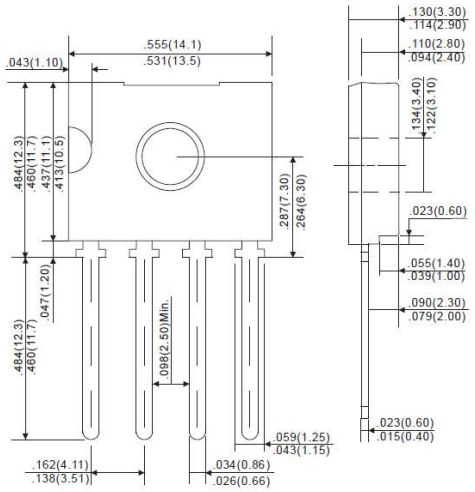
GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIERS

REVERSE VOLTAGE: **50 to 1000 VOLTS**
FORWARD CURRENT: **4.0 AMPERE**

FEATURES

· Glass passivated die construction
· Low forward voltage drop
· High current capability
High surge current capability

D3K



Dimensions in inchs and (millimeters)

MECHANICAL DATA

Case : D3K,molded plastic
Terminal : Plated leads solderable per
MIL-STD 202,Method 208
Polarity : As Marked on case
Mounting position : Any

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60H_Z, resistive or inductive load.
For capacitive load, derate current by 20%.

Parameter	**Symbols**	***UG4K B05***	***UG4K B10***	***UG4K B20***	***UG4K B40***	***UG4K B60***	***UG4K B80***	***UG4K B100***	**Units**
Marking Code		UG4K B05	UG4K B10	UG4K B20	UG4K B40	UG4K B60	UG4K B80	UG4K B100	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	**Volts**
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	**Volts**
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	**Volts**
Maximum Average Forward Rectified Current with heatsink T_C=138℃	$I_{(AV)}$	4.0							**Amp**
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	135							**Amp**
I^2t Rating for Fusing (t<8.3ms)	I^2t	41.4							**A^2s**
Maximum Forward Voltage at 2.0A DC and 25℃	V_F	1.0							**Volts**
Maximum Reverse Current at T_J=25℃	I_R	10							**μAmp**
at Rated DC Blocking Voltage T_J=125℃		500							
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	55							**℃/W**
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	1.5							**℃/W**
Operating and Storage Temperature Range	T_J, T_{stg}	-55 to +150							**℃**

NOTES:

1- Thermal resistance from junction to ambient

2- Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES

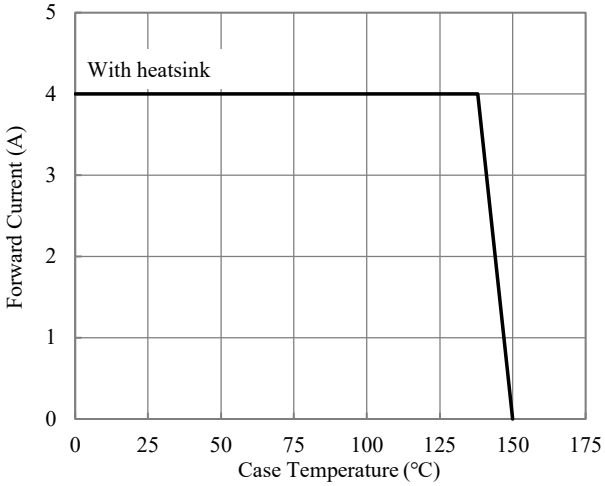


Fig. 1 Forward Current Derating Curve

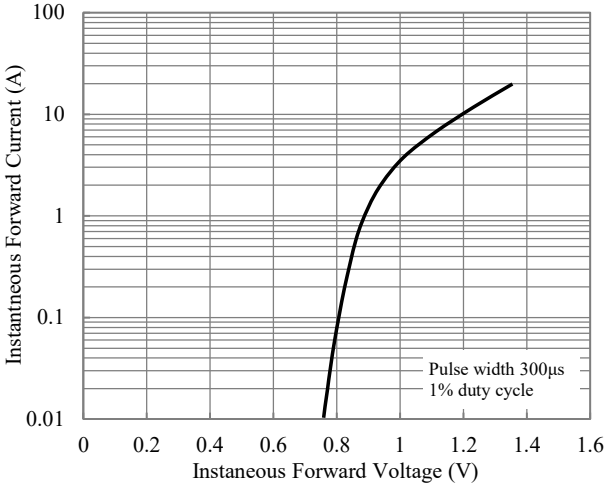


Fig. 2 Typical Instaneous Forward Characteristics

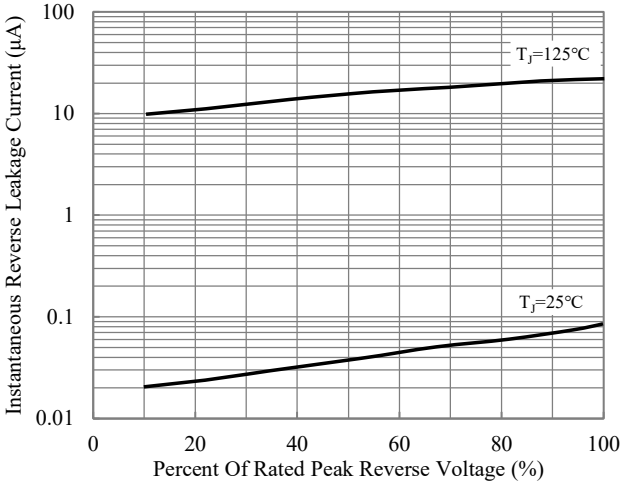


Fig. 3 Typical Reverse Leakage Characteristics

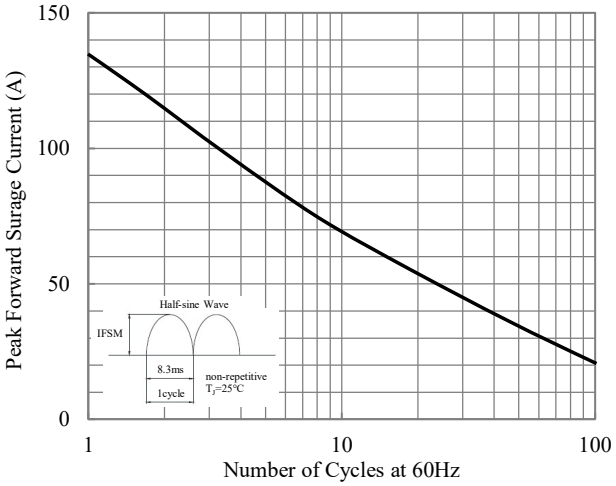


Fig. 4 Maximum Non-Repetitive Peak Forward Surage Current