UG3KB05 THRU UG3KB100

SINGLE PHASE 3.0AMP GLASS PASSIVATED BRIDGE RECTIFIER

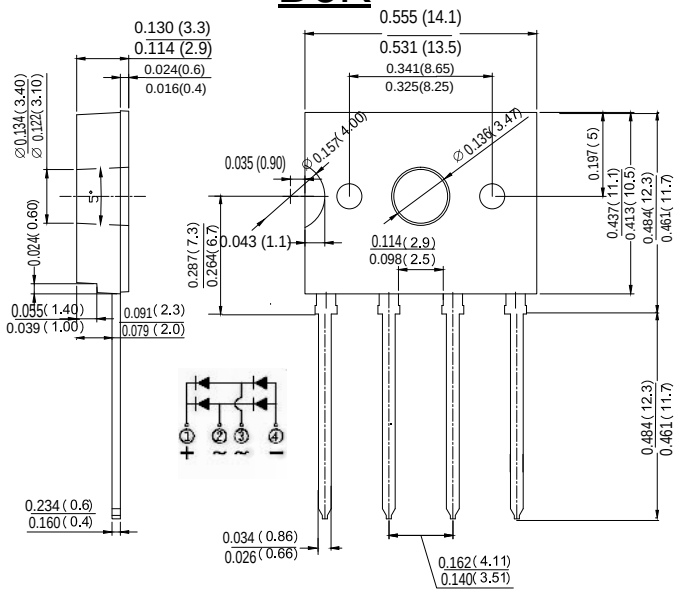
Features

- 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

D3K



Dimiensions in inches and （milimeters）

Maximum Ratings and Electrical Characteristics

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

TYPE NUMBER	SYMBOL	UG3K B05	UG3K B10	UG3K B20	UG3K B40	UG3K B60	UG3K B80	UG3K 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 Output Current Without heat sink @T_c=90℃ With heat sink @T_c=90 ℃	$I_{F(AV)}$	1.5 3.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	60							A
I^2t Rating for Fusing (t < 8.3ms)	I^2t	14.94							A^2s
Forward Voltage per element @IF=3.0A	V_{FM}	1.1							V
Maximum DC reverse current at T_A=25℃ rated DC blocking voltage per leg T_A=125℃	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							℃/W
	$R_{\theta JL}$	15							
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150							℃

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

UG3KB05 THRU UG3KB100

Fig. 1 Output Current Derating Curve

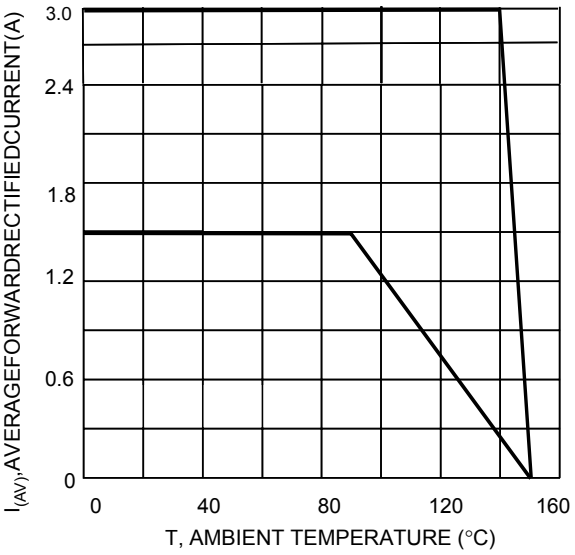


Fig. 2 Typical I Forward Characteristics (per leg)

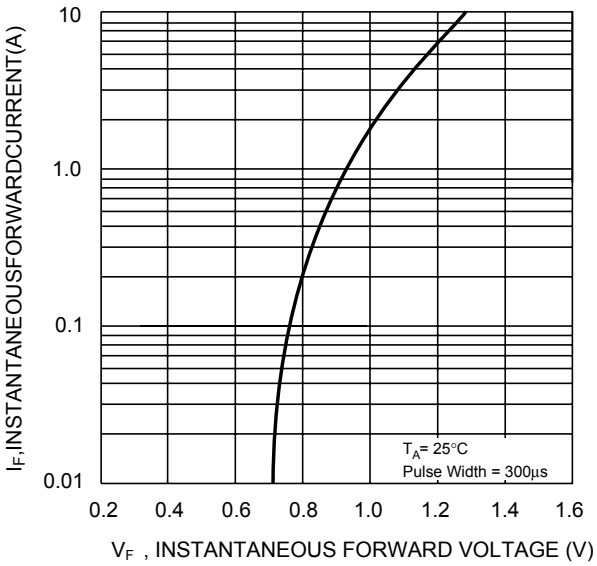


Fig. 3 Maximum Peak Forward Surge Current (per leg)

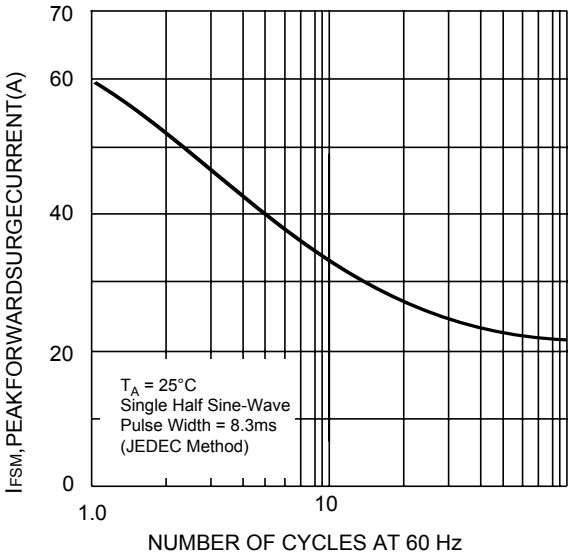


Fig.4 Typical Junction Capacitance Per Diode

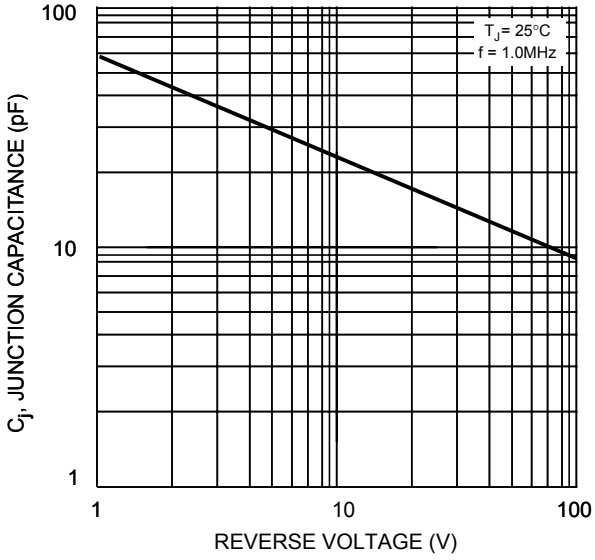
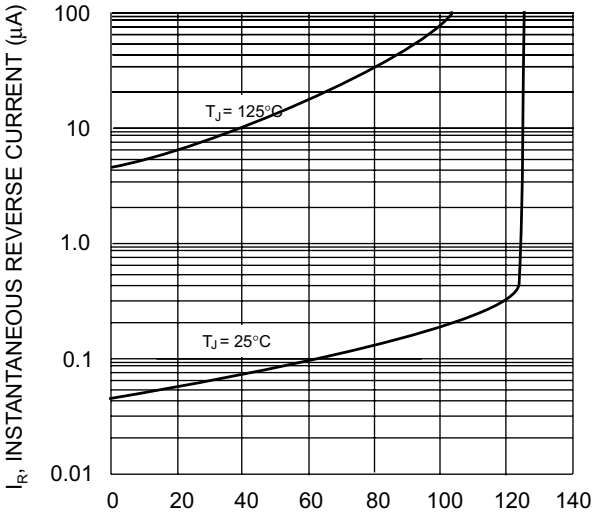


Fig. 5 T ypical Reverse Characteristics (per element)



Important Notice and Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from DIYI.
- DIYI reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
- DIYI disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- DIYI does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications.

  DIYI makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify DIYI for any damages resulting from such improper use or sale.
- Since DIYI uses lot number as the tracking base, please provide the lot number for tracking when complaining.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bridge Rectifiers ***category:***

Click to view products by DIYI ***manufacturer:***

Other Similar products are found below :

MB2510 MB252 MB356G MB358G MP358-BP 90MT160KPBF GBJ1504-BP GBU10B-BP GBU15J-BP GBU15K-BP GBU4A-BP GBU4D-BP GBU6B-E3/45 GSIB680-E3/45 DB101-BP DBA100G DBA150G DBA250G DBA40G DBD10G-TM-E DBF10G DBF250G DBG150G DBG250G DF01 DF10SA-E345 BU1508-E3/45 BU1510-E3/45 KBPC50-10S RS405GL-BP G5SBA60-E3/51 GBJ1502-BP GBU10J-BP GBU6M GBU8D-BP GBU8J-BP GSIB1520-E3/45 TB102M MB1510 MB6M-G MB86 TL401G MDA920A2 TU602 TU810 MP501W-BP MP502-BP BR1005-BP BR101-BP BR84DTP204