UG4KB05A THRU UG4KB100A

SINGLE PHASE4.0AMP GLASS PASSIVATED BRIDGE RECTIFIER

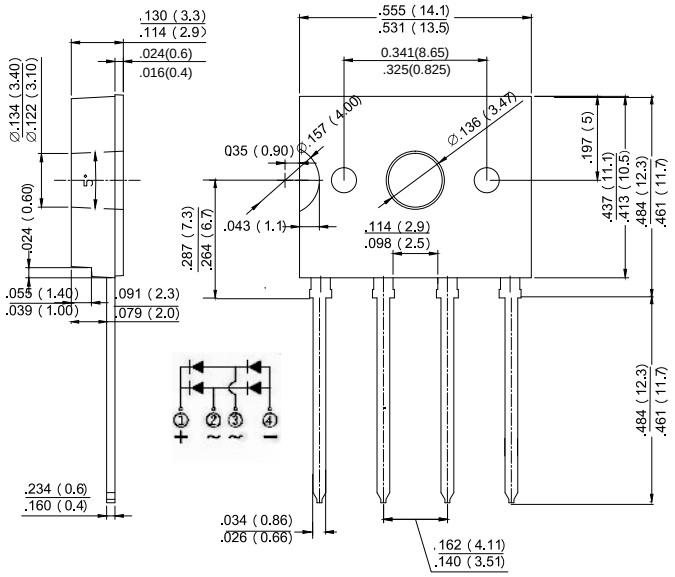
Features

- 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

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	UG4K B05A	UG4K B10A	UG4K B20A	UG4K B40A	UG4K B60A	UG4K B80A	UG4K B100A	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_A=30℃ / With heat sink @T_A=140℃	I_o	2.0 / 4.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80							A
Forward Voltage per element @IF=4.0A	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 2)	$R_{\theta JA}$ / $R_{\theta JL}$	55 / 15							℃/W
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.

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Fig. 1 Output Current Derating Curve

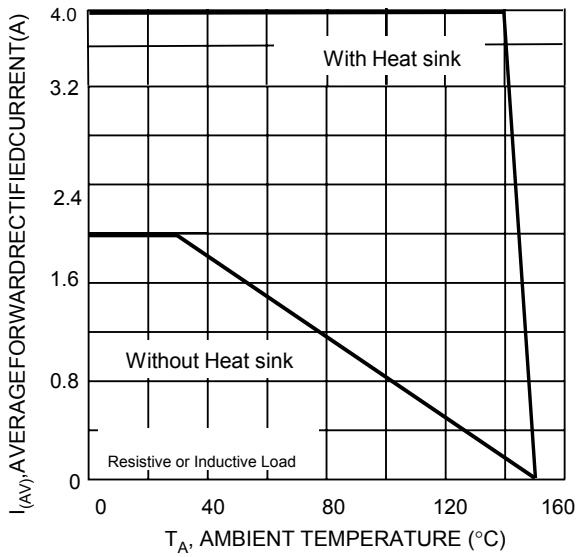


Fig. 2 Typical I Forward Characteristics (per leg)

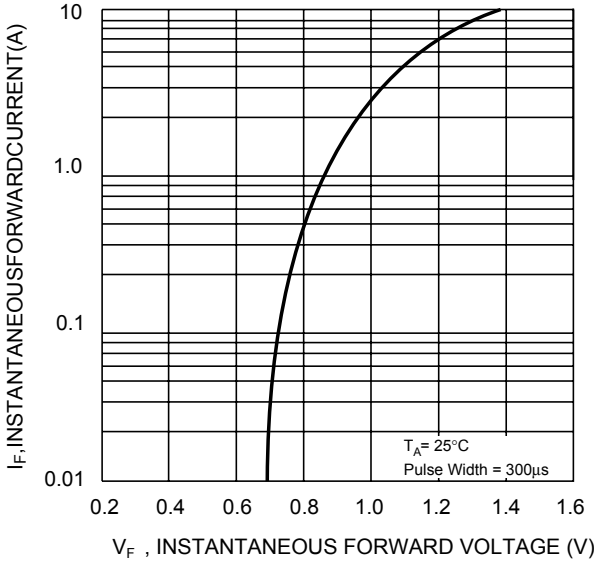


Fig. 3 Maximum Peak Forward Surge Current (per leg)

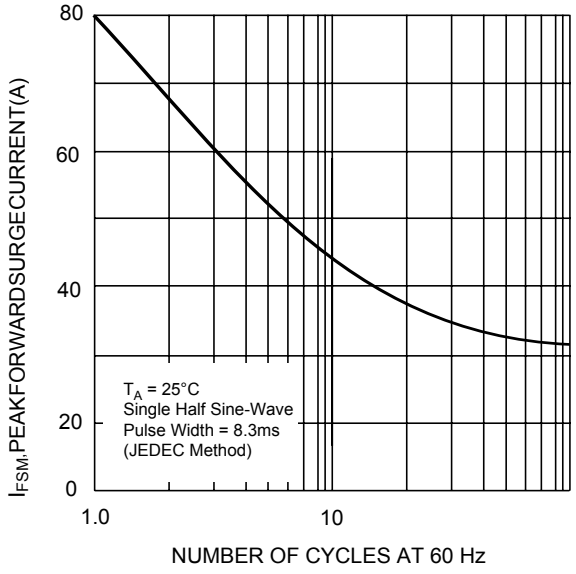


Fig.4 Typical Junction Capacitance Per Diode

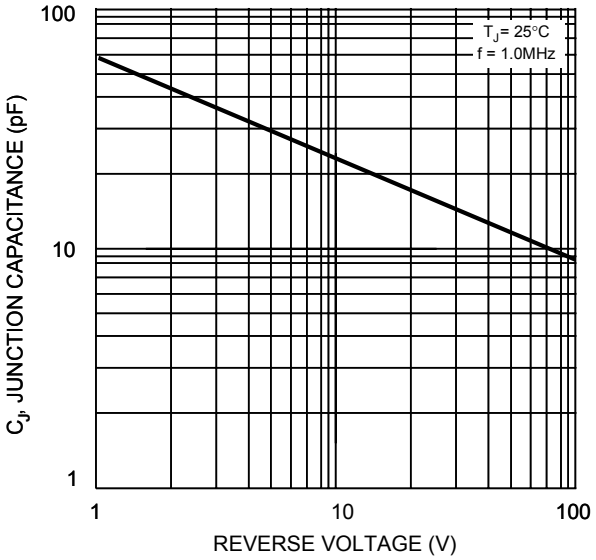


Fig. 5 T ypical Reverse Characteristics (per element)

