



UG6KB05-UG6KB100

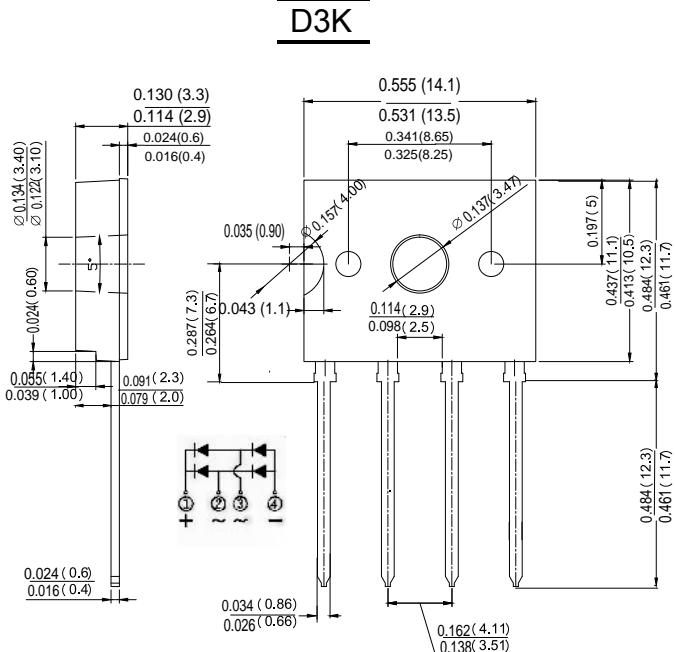
BRIDGE RECTIFIERS

Features

- Glass passivated die construction
- High surge current capability
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- 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



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbol	UG6KB 05	UG6KB 10	UG6KB 20	UG6KB 40	UG6KB 60	UG6KB 80	UG6KB 100	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average forward output rectified current	I (AV)				6.0				A
Peak forward surge current 8.3ms single sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}				150				A
Maximum instantaneous forward voltage drop per diode @6.0A	V _F			1.1					V
Maximum DC reverse current at TA=25°C rated DC blocking voltage per leg TA=125°C	I _R			5.0	500				uA
Typical thermal resistance per leg	R _{θ JA}			55					°C/W
	R _{θ JL}			15					
Operating junction temperature range	T _J			-55 to +150					°C
storage temperature range	T _{stg}			-55 to +150					°C

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



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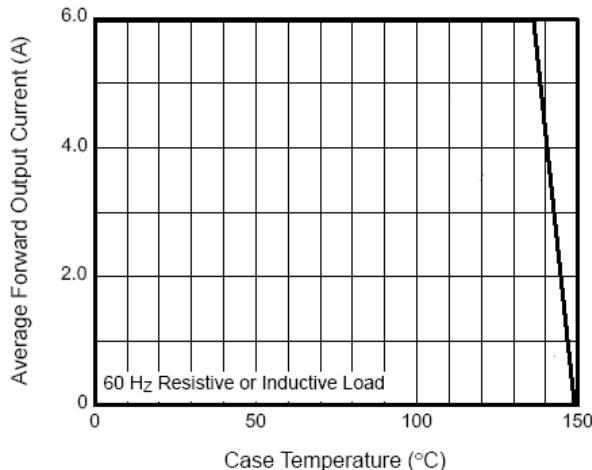
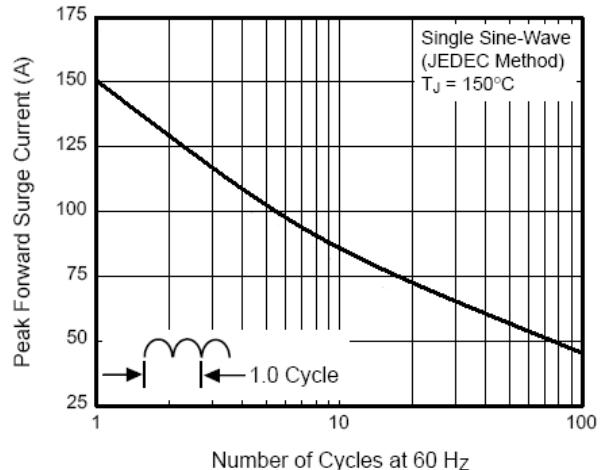
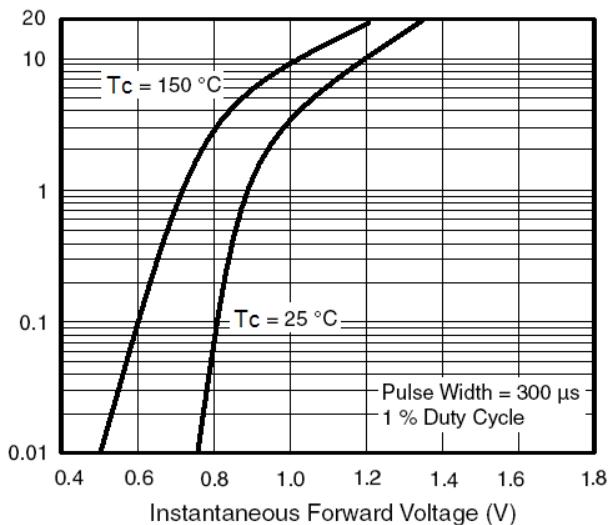
**Characteristic Curves** ($T_A=25^\circ\text{C}$ unless otherwise noted)**Fig. 1 – Derating Curve
Output Rectified Current****Fig. 2 – Maximum Non-Repetitive Peak
Forward Surge Current Per Leg**

Figure 3. Typical Forward Characteristics Per Diode

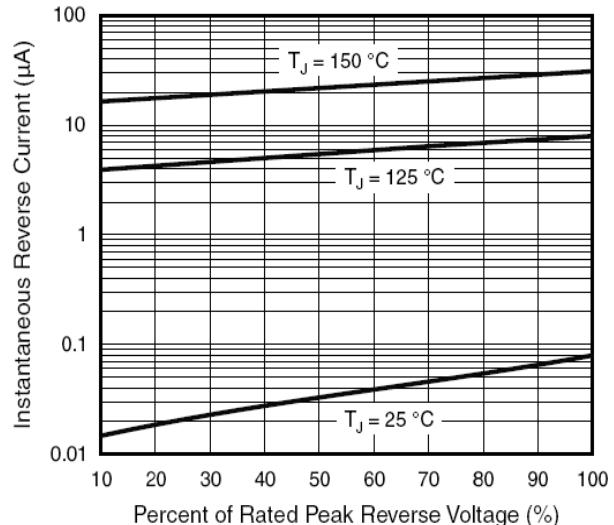


Figure 4. Typical Reverse Leakage Characteristics Per Diode