



UG3KB05-UG3KB100

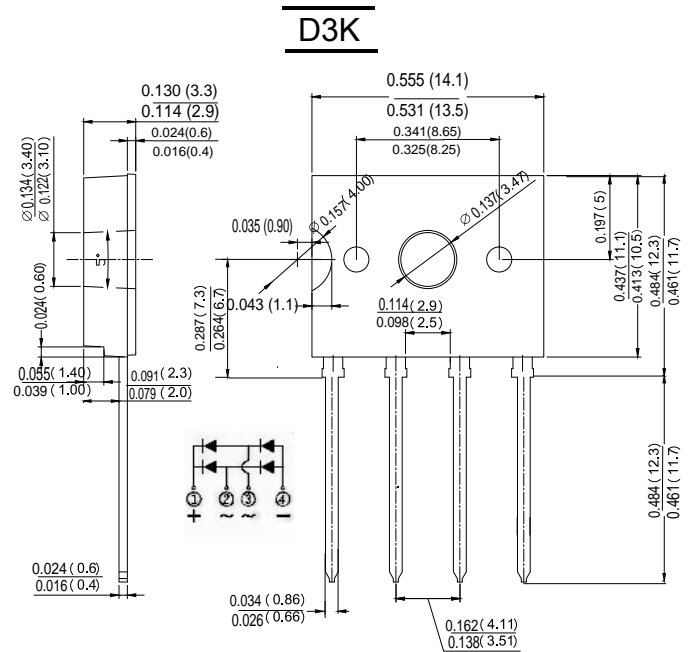
BRIDGE RECTIFIERS

Features

- Glass passivated die construction
- High surge 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



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	UG3KB	UG3KB	UG3KB	UG3KB	UG3KB	UG3KB	UG3KB	UNIT
		05	10	20	40	60	80	100	
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)	3.0							A
Peak forward surge current 8.3ms single sine-wave superimposed on rated load(JEDEC Method)	IFSM	60							A
Maximum instantaneous forward voltage drop per diode @3.0A	VF	1.1							V
Maximum DC reverse current at TA=25°C rated DC blocking voltage per leg TA=125°C	IR	5.0 500							uA
Typical thermal resistance per leg	R θ JA	34							°C/W
	R θ JL	15							
Operating junction temperature range	TJ	-55 to +150							°C
storage temperature range	Tstg	-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 FOR OUTPUT RECTIFIED CURRENT

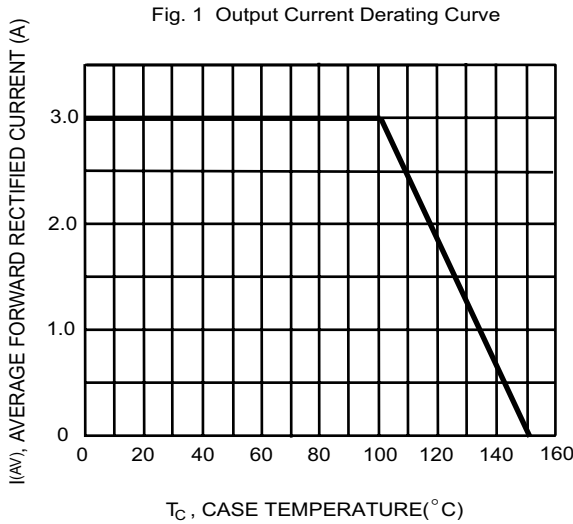


FIG.2- FORWARD CURRENT DERATING CURVE

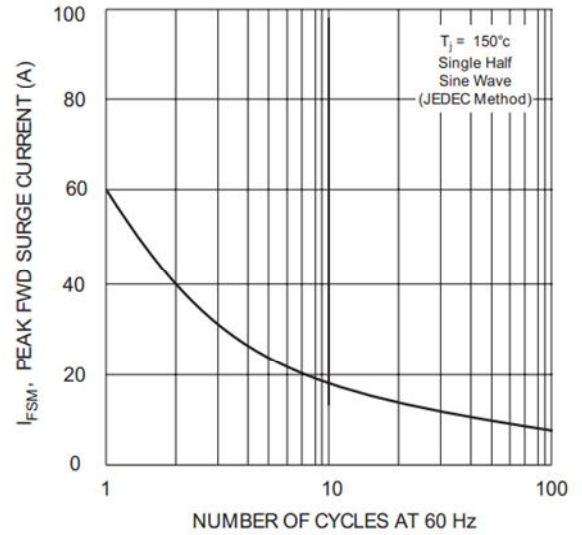


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

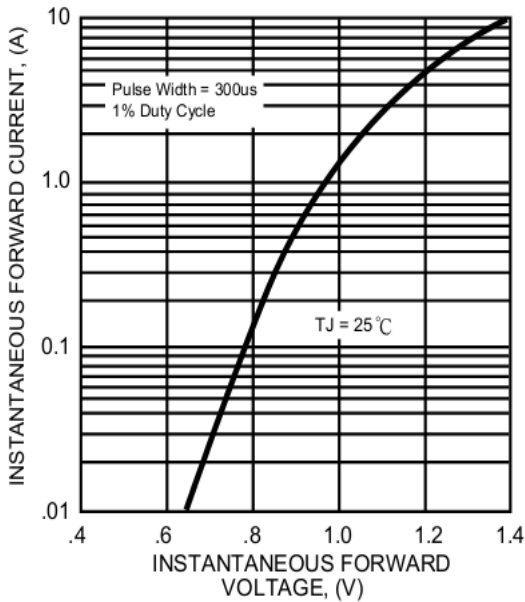


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

