

UG2KB005 THRU UG2KB100

BRIDGE RECTIFIERS



VOLTAGE 50 THRU 1000 Volts **CURRENT** 2.0 Amperes

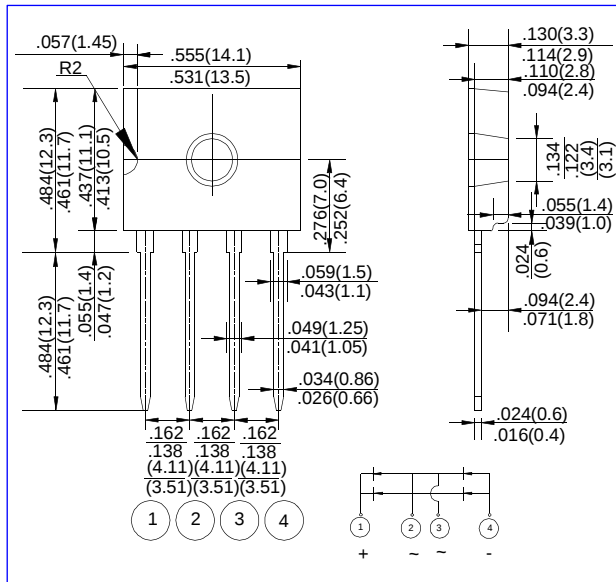
D3K Unit:(mm)

FEATURES

- ★ Ideal for printed circuit board mounting
- ★ The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- ★ Built-in printed circuit board stand-offs
- ★ High case dielectric strength
- ★ High temperature soldering guaranteed 265°C /10 seconds at 5 lbs (2.3kg) tension

MECHANICAL DATA

- ★ Case: Reliable low cost construction utilizing molded plastic technique
- ★ Terminals: Plated leads solderable per MIL-STD-202, Method 208
- ★ Mounting Position: Any
- ★ Weight: 0.065 ounce, 2.2 grams (approx)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C(UNLESS OTHERWISE NOTED))

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.
For Capacitive load derate by 20%.

Parameter	Symbol	UG2KB 005	UG2KB 010	UG2KB 020	UG2KB 040	UG2KB 060	UG2KB 080	UG2KB 100	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current at TA=50°	IF(AV)	2							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	50							A
Rating for fusing (t<8.3ms)	I ² t	15.0							A ² sec
Typical thermal resistance per element (1)	RthJA	10.0							°C / W
Typical junction capacitance per element (2)	Cj	25.0							pF
Operating junction and storage temperature range	TJ, TSTG	-55 to + 150							°C

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.
For Capacitive load derate by 20 %.

Parameter	Symbol	UG2KB 005	UG2KB 010	UG2KB 020	UG2KB 040	UG2KB 060	UG2KB 080	UG2KB 100	Unit
Maximum instantaneous forward voltage drop per leg at 1.5A	VF	1.1							V
DC blocking voltage per element TA =125°C	IR	10 500							μA

Notes: (1) Thermal resistance from Junction to Ambient on P.C. board mounting.
(2) Measured at 2.0MHz and applied reverse voltage of 4.0 volts.

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RATING AND CHARACTERISTIC CURVES ($T_A=25^{\circ}\text{C}$ (UNLESS OTHERWISE NOTED))

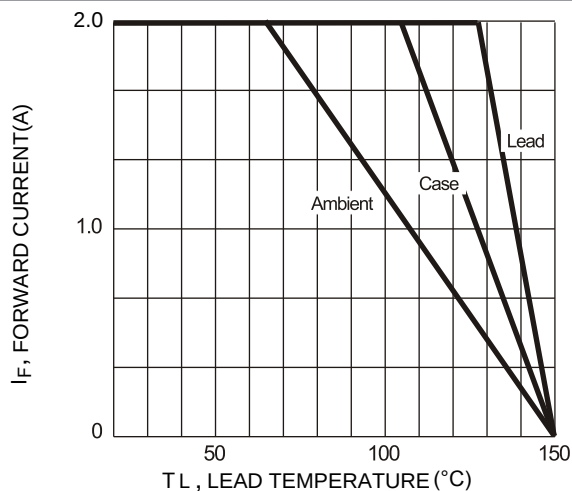


Fig.1-FORWARD CURRENT DERATING CURVE

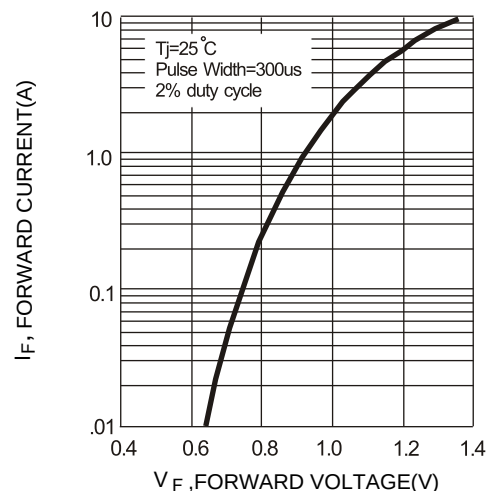


Fig.2-TYPEICAL FORWARD CHARACTERISTICS

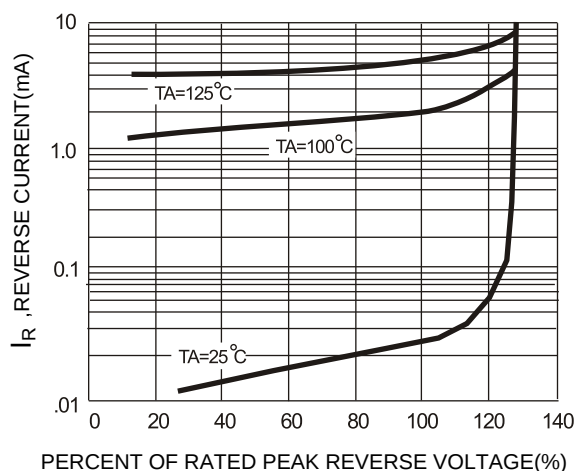


Fig.3-TYPICAL REVERSE CHARACTERISTICS

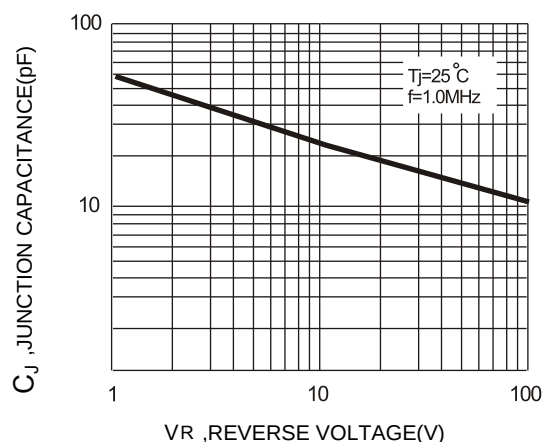


Fig.4-TYPICAL JUNCTION CAPACITANCE

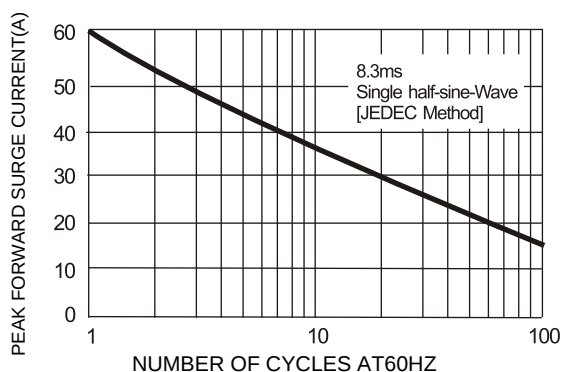


Fig.5-MAX. NON-REPETITIVE SURGE CURRENT



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ORDER INFORMATION

- Packing information
B/P-600pcs Per Box.