

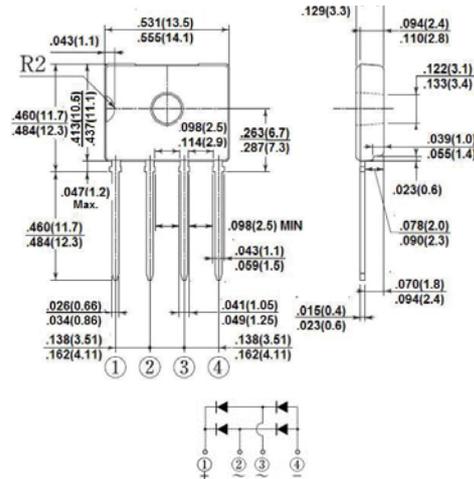
UR2KB60 - UR2KB100

Single Phase 2.0 AMPS.
Glass Passivated Bridge Rectifiers
D3K



Features

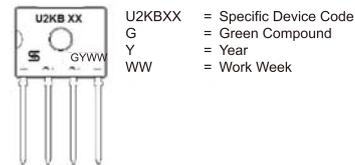
- ✦ UL Recognized File # E-326243
- ✦ Glass passivated junction
- ✦ Ideal for printed circuit board
- ✦ High case dielectric strength
- ✦ Plastic material has Underwriters laboratory flammability Classification 94V-0
- ✦ Typical IR less than 0.1uA
- ✦ High surge current capability
- ✦ High temperature soldering guaranteed:
260°C / 10 seconds at 5 lbs., (2.3 kg) tension
- ✦ Green compound with suffix "G" on packing code & prefix "G" on datecode.



Dimension in inches and (millimeter)
Marking Diagram

Mechanical Data

- ✦ Case : Molded plastic body
- ✦ Terminal : Pure tin plated , Lead free. Leads solderable per MIL-STD-202 Method 208
- ✦ Weight : 1.41 grams
- ✦ Mounting Torque : 0.8 N.M max.



Maximum Ratings and Electrical Characteristics

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

Type Number	Symbol	UR2KB 60	UR2KB 80	UR2KB 100	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	600	800	1000	V
Maximum Average Forward Current Without heat sink $T_A=25^{\circ}C$ 60 Hz sine wave resistance load With heat sink $T_C=143^{\circ}C$	$I_{F(AV)}$	1.2 2.0			A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	62			A
Rating of fusing ($t < 8.3ms$)	I^2t	16			A ² S
Maximum Instantaneous Forward Voltage @ 1.0A	V_F	1.05			V
Maximum DC Reverse Current at Rated DC Blocking Voltage (Note 1)	I_R	10			uA
Dielectric Strength (Terminal to Case, AC 1minute)	V_{dis}	2.0			KV
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	13.4			°C/W
	$R_{\theta JC}$	2.3			
	$R_{\theta JL}$	2.8			
Operating Temperature Range	T_J	-55 to +150			°C
Storage Temperature Range	T_{STG}	-55 to +150			°C

Note : 1. Pulse Test with PW=300 usec, 1% Duty Cycle
2. Unit case mounted on 2" x 3" x 0.25" Al plate heat sink.

RATINGS AND CHARACTERISTIC CURVES (UR2KB60 THRU UR2KB100)

FIG 1 Maximum Derating Curve for Output Current

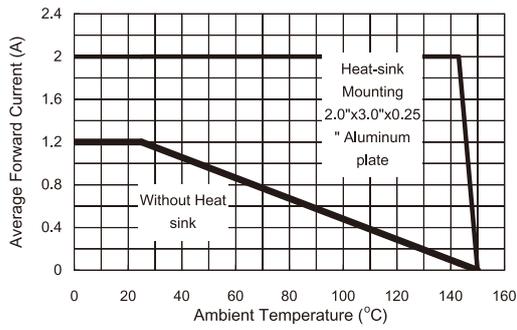


FIG 2 Maximum Forward Surge Current per Leg

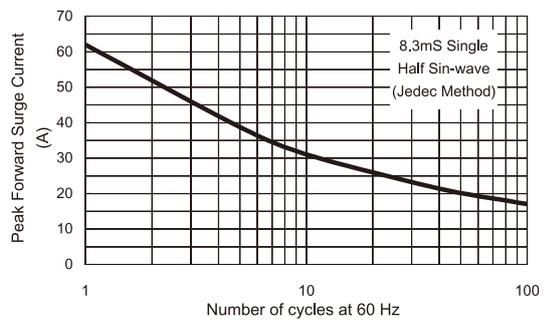


FIG 3 Typical Reverse Characteristics per Leg

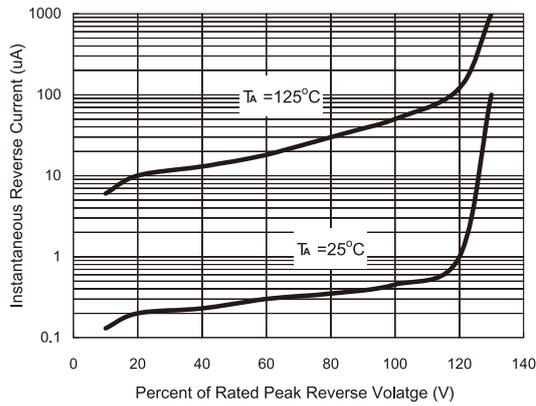


FIG 4 Typical Forward Characteristics per Leg.

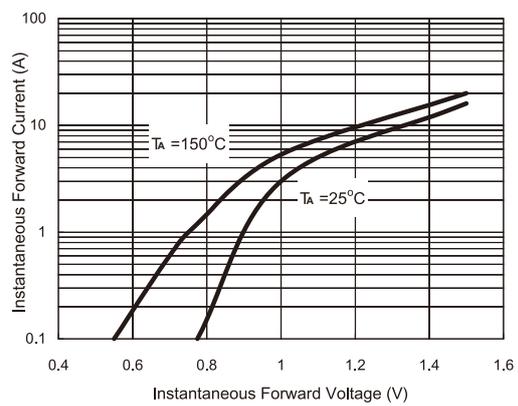
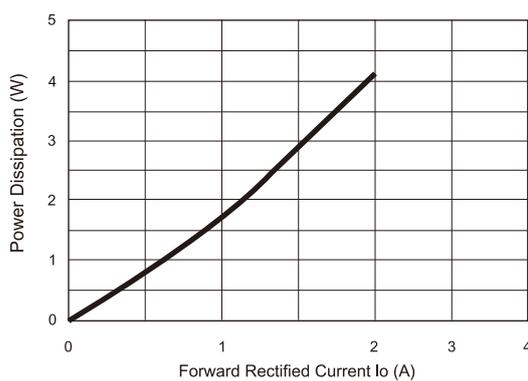


FIG 5 Forward Power Dissipation



Mouser Electronics

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