

UR2KB005-UR2KB100
Single Phase 2.0 AMPS.
Glass Passivated Bridge Rectifiers
D3K

Features

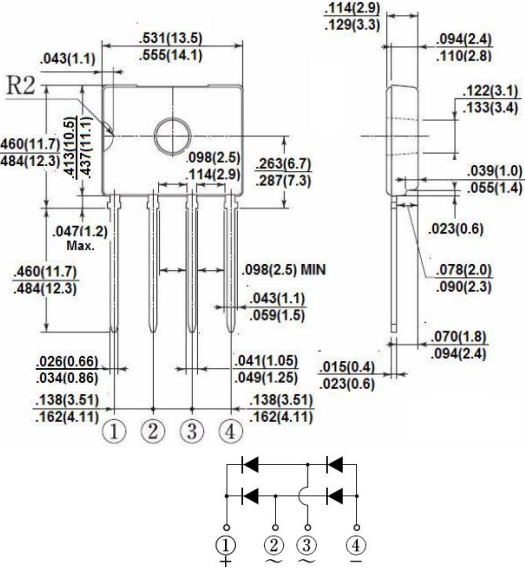
- ✧ UL Recognized
- ✧ Glass passivated junction
- ✧ Ideal for printed circuit board
- ✧ High case dielectric strength
- ✧ Plastic material has Underwriters laboratory flammability Classification 94V-0
- ✧ Typical IR less than 0.1uA
- ✧ High surge current capability
- ✧ High temperature soldering guaranteed: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

Mechanical Data

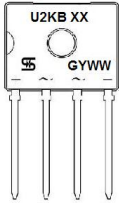
- ✧ Case : Molded plastic body
- ✧ Terminal : Pure tin plated , Lead free. Leads solderable per MIL-STD-202 Method 208
- ✧ Weight : 1.41 grams (0.053 ounce)
- ✧ Mounting Torque : 0.8 N.M max.

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%



Dimension in inches and (millimeter)
Marking Diagram



U2KBXX = Specific Device Code
 G = Green Compound
 Y = Year
 WW = Work Week

Type Number	Symbol	UR2KB 005	UR2KB B10	UR2KB B20	UR2KB B40	UR2KB B60	UR2KB B80	UR2KB B100	Units
Maximum Recurrent 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 Current Without heat sink $T_a=25^{\circ}C$ 60 Hz sine wave resistance load With heat sink $T_c=143^{\circ}C$	$I_{(AV)}$	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	I_R	10							uA
Dielectric Strength (Terminal to Case, AC 1minute)	V_{dis}	2.0							KV
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	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 : Unit case mounted on 2" x 3" x 0.25" Al plate heat sink.

RATINGS AND CHARACTERISTIC CURVES (UR2KB005-UR2KB100)

FIG 1 Maximum Derating Curve for Output Current

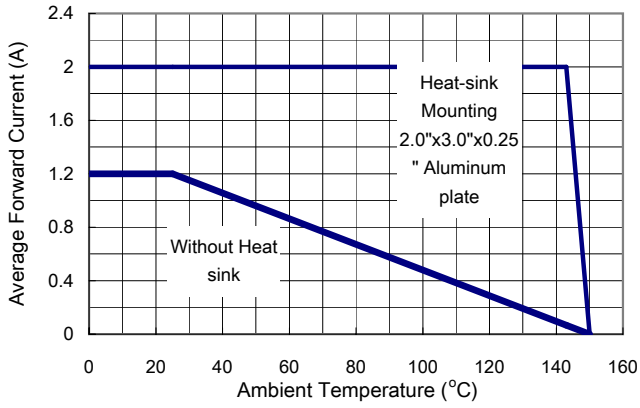


FIG 2 Maximum Forward Surge Current per Leg

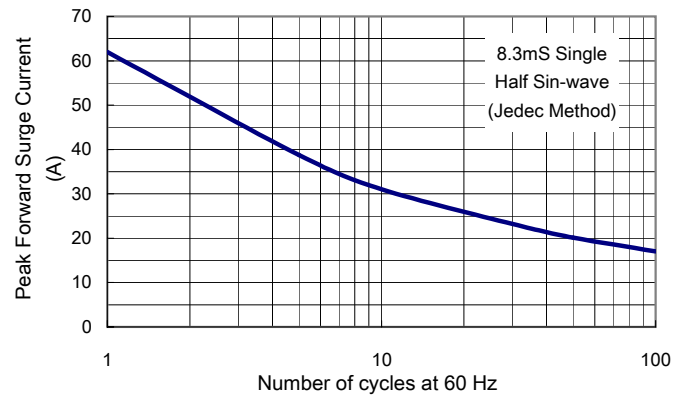


FIG 3 Typical Reverse Characteristics per Leg

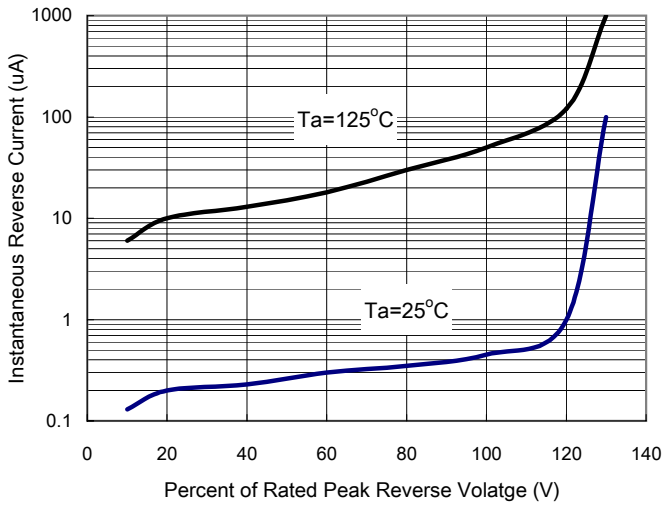


FIG 4 Typical Forward Characteristics per Leg.

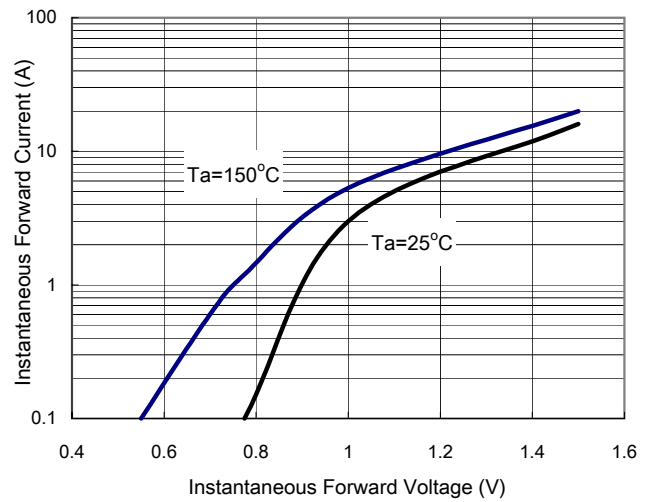


FIG 5 Forward Power Dissipation

