

UR2KB005-UR2KB100

Single Phase 2.0 AMPS.

Glass Passivated Bridge Rectifiers

D3K

Features

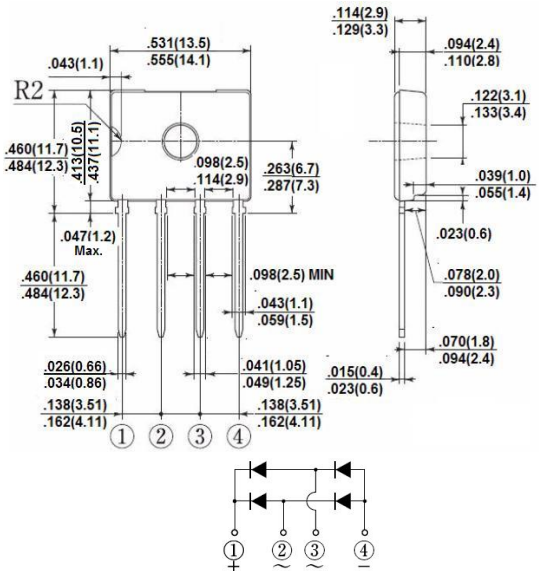
- ◇ UL Recognized
- ◇ Glass passivated junction
- ◇ Ideal for printed circuit board
- ◇ High case dielectric strength
- ◇ Plastic material has Underwriters laboratory flammability Classification 94V-0
- ◇ Typical IR less than 0.1uA
- ◇ High surge current capability
- ◇ High temperature soldering guaranteed:
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

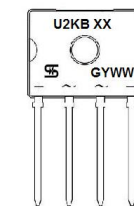
- ◇ Case : Molded plastic body
- ◇ Terminal : Pure tin plated , Lead free. Leads solderable per MIL-STD-202 Method 208
- ◇ Weight : 1.41 grams (0.053 ounce)
- ◇ Mounting Torque : 0.8 N.M max.

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	UR2K B10	UR2K B20	UR2K B40	UR2K B60	UR2K B80	UR2K 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 Ta=25°C 60 Hz sine wave resistance load With heat sink Tc=143°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 ² t	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)	Vdis	2.0							KV
Typical Thermal Resistance (Note 1)	RθJA	13.4							°C/W
	RθJC	2.3							
	RθJL	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

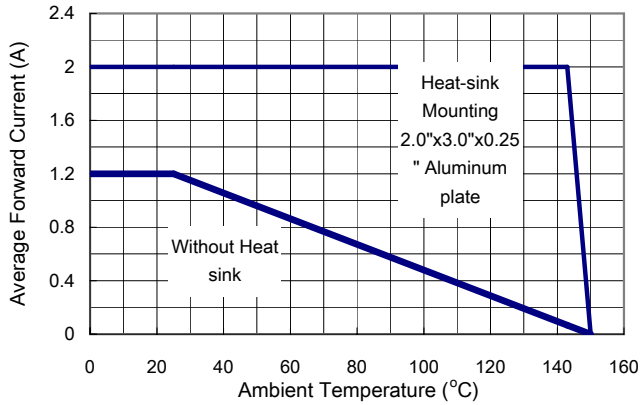


FIG 2 Maximum Forward Surge Current per Leg

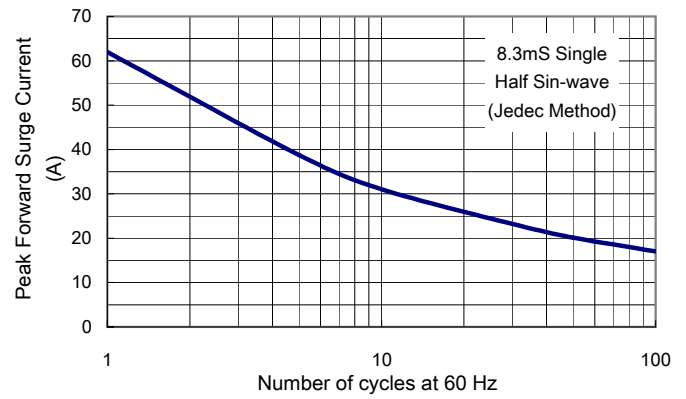


FIG 3 Typical Reverse Characteristics per Leg

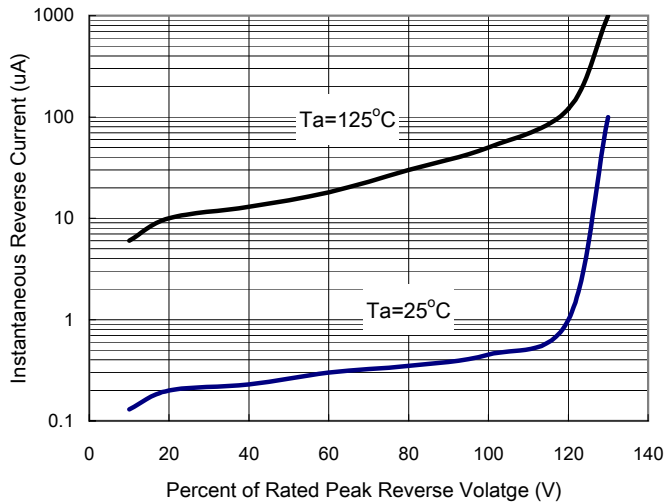


FIG 4 Typical Forward Characteristics per Leg.

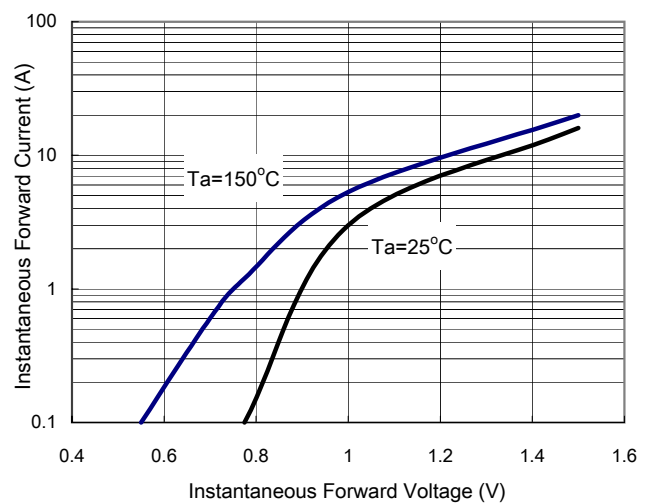


FIG 5 Forward Power Dissipation

