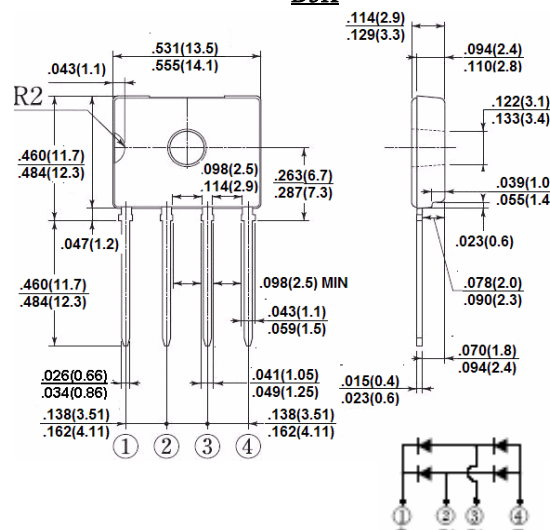


UR3KB series Single Phase 3.0 AMPS. Glass Passivated Bridge Rectifiers

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

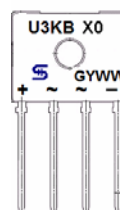
- ✧ Case : Molded plastic body
- ✧ Terminal : Pure tin plated , Lead free. Leads solderable per MIL-STD-202 Method 208
- ✧ Weight : 1.41 grams (0.053 ounce)
- ✧ Mounting Torque : 0.8 N.M max.

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



U3KB X0 = Specific Device Code
G = Green Compound
Y = Year
WW = Work Week

Type Number	Symbol	UR3KB 20	UR3KB 40	UR3KB 60	UR3KB 80	UR3KB 100	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	200	400	600	800	1000	V
Maximum Average Forward Current Without heat sink Ta=29°C 60 Hz sine wave resistance load With heat sink Tc=140°C	I _(AV)	1.2 3.0					A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	90					A
Rating of fusing (t < 8.3mS)	I ² _t	35					A ² S
Maximum Instantaneous Forward Voltage @ 1.5A	V _F	1.00					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 _{θJA}	13.7					°C/W
	R _{θJC}	5.2					
	R _{θJL}	5.5					
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.

Rating and Sharacteristic Curves (UR3KBX0)

