

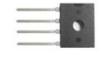
## **UR3KB60 - UR3KB100**

Single Phase 3.0AMPS. Glass Passivated Bridge Rectifiers

D<sub>3</sub>K







#### **Features**

- ♦ 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.,(2.3kg) tension
- ♦ Green compound with suffix "G" on packing code & prefix "G" on datecode.

# .162 .162 .162 .138 .138 .138 (4.11)(4.11)(4.11) (3.51)(3.51)(3.51)

## .057(1.4) .027(0.7) 555(14.1) .114(2.9) .110(2.8) R2 531(13.5) .094(2.4).484(12.3) .461(11.7) .437(11.1) .413(10.5) .039(1.0) 2 8 6 000 059(1.5) 1(11.7) .055(1.4 .043(1.1 .043(1.1) .094(2.4) .071(1.8) 041(1.05) .026(0.66) .024(0.6) .016(0.4)

## **Mechanical Data**

- ♦ Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208
- ♦ Weight: 1.41 grams
- ♦ Mounting Torque: 0.8 N.M max.

#### **Dimensions in inches and (millimeters)**

## **Marking Diagram**



**UR3KBXX** = Specific Device Code G = Green Compound

Υ = Year WW = Work Week

### **Maximum Ratings and Electrical Characteristics**

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

Type Number	Symbol	UR3KB 60	UR3KB 80	UR3KB 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 $T_A$ =29 $^{\circ}$ C 60Hz sine wave resistance load With heat sink $T_C$ =140 $^{\circ}$ C	I <sub>F(AV)</sub>	1.2 3.0			А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	90			А
Rating of fusing (t < 8.3mS)	l <sup>2</sup> t	35			A <sup>2</sup> S
Maximum Instantaneous Forward Voltage (Note 1) @ 1.5A	V <sub>F</sub>	1.0		V	
Maximum DC Reverse Current at Rated DC Block Voltage	I <sub>R</sub>	10		uA	
Dielectric Strength (Terminal to Case, AC 1minute)	Vdis		2.0		KV
Typical Thermal Resistance	$egin{array}{c} R_{ heta JA} \ R_{ heta JC} \ R_{ heta JL} \end{array}$	13.7 5.2 5.5		°C/W	
Operating Temperature Range	TJ	- 55 to + 150			оС
Storage Temperature Range	T <sub>STG</sub>	- 55 to + 150			οс

Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle



#### RATINGS AND CHARACTERISTIC CURVES (UR3KB60 THRU UR3KB100)

