UR3KB60 - UR3KB100



Single Phase 3.0AMPS. Glass Passivated Bridge Rectifiers

Features

- ♦ UL Recoganized File # E-326243
- ♦ Glass passivated junction
- \diamond 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.

Mechanical Data

- ♦ Case: Molded plastic body
- 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

U3KBXX

G

Y

WW

- = Specific Device Code
 - = Green Compound
 - = Year
 - = Work Week

Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}$ 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	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 $^\circ\rm C$ 60Hz sine wave resistance load $~$ With heat sink $~T_C$ =140 $^\circ\rm C$	I _{F(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			А
Rating of fusing (t < 8.3mS)	l ² t	35			A ² S
Maximum Instantaneous Forward Voltage (Note 1) @ 1.5A	V _F	1.0			V
Maximum DC Reverse Current at Rated DC Block Voltage	I _R	10			uA
Dielectric Strength (Terminal to Case, AC 1minute)	Vdis		2.0		KV
Typical Thermal Resistance	$f R_{ heta JA} \ R_{ heta JC} \ R_{ heta JL}$	13.7 5.2 5.5		°C/W	
Operating Temperature Range	Τ _J	- 55 to + 150			OO
Storage Temperature Range	T _{STG}	- 55 to + 150			0 O

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



RATINGS AND CHARACTERISTIC CURVES (UR3KB60 THRU UR3KB100)





FIG. 4 TYPICAL FORWARD CHARACTERISRICS PER





FIG. 5 FORWARD POWER DISSIPATION

