

## Glass Passivated Bridge Rectifiers

### FEATURES

- Ideal for printed circuit board
- High case dielectric strength
- High surge current capability
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



D3K



### MECHANICAL DATA

**Case:** D3K

Molding compound, UL flammability classification rating 94V-0

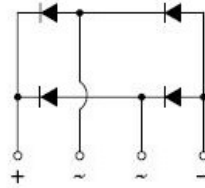
Base P/N with suffix "G" on packing code - halogen-free

**Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

**Weight:** 1.24 g (approximately)

**Mounting Torque:** 0.8 N.M max.



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	UR2KB 60	UR2KB 80	UR2KB 100	UNIT
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	420	560	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	600	800	1000	V
Maximum average forward current 60Hz sine wave resistance load	I <sub>F(AV)</sub>	Without heat sink T <sub>A</sub> =25°C		1.2	A
		With heat sink T <sub>C</sub> =143°C		2.0	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	62		A	
Rating of fusing ( t < 8.3ms)	I <sup>2</sup> t	15.9		A <sup>2</sup> s	
Maximum instantaneous forward voltage (Note 1) I <sub>F</sub> = 1 A	V <sub>F</sub>	1.05		V	
Maximum DC reverse current at rated DC blocking voltage	I <sub>R</sub>	10		μA	
Dielectric Strength (Terminal to Case, AC 1minute)	V <sub>dis</sub>	2		KV	
Typical Thermal Resistance	R <sub>θJC</sub>	2.3		°C/W	
	R <sub>θJL</sub>	2.8			
	R <sub>θJA</sub>	13.4			
Operating junction temperature range	T <sub>J</sub>	- 55 to +150		°C	
Storage temperature range	T <sub>STG</sub>	- 55 to +150		°C	

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

ORDERING INFORMATION				
PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING
UR2KBx0 (Note 1)	C2	Suffix "G"	D3K	1,500 / BOX

Note 1: "x" defines voltage from 600V (UR2KB60) to 1000V (UR2KB100)

EXAMPLE				
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
UR2KB60 C2	UR2KB60	C2		
UR2KB60 C2G	UR2KB60	C2	G	Green compound

**RATINGS AND CHARACTERISTICS CURVES**

(TA=25°C unless otherwise noted)

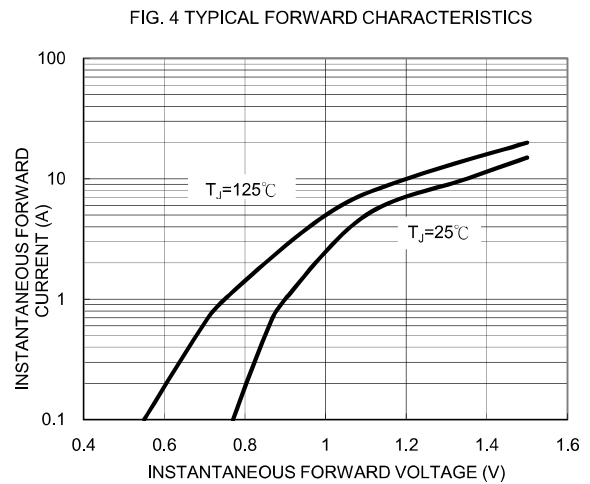
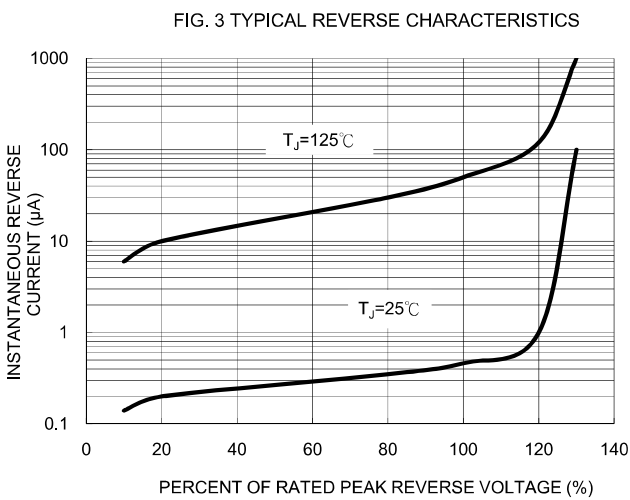
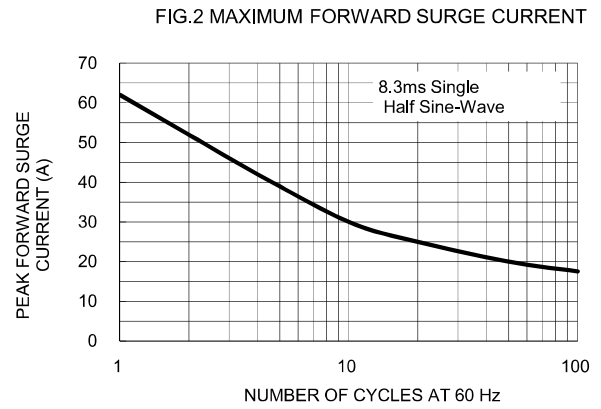
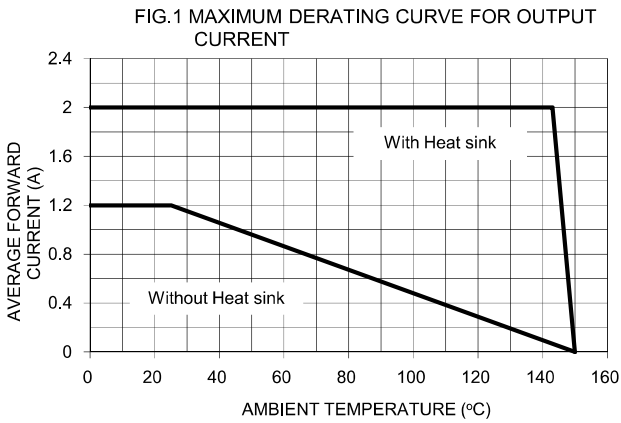
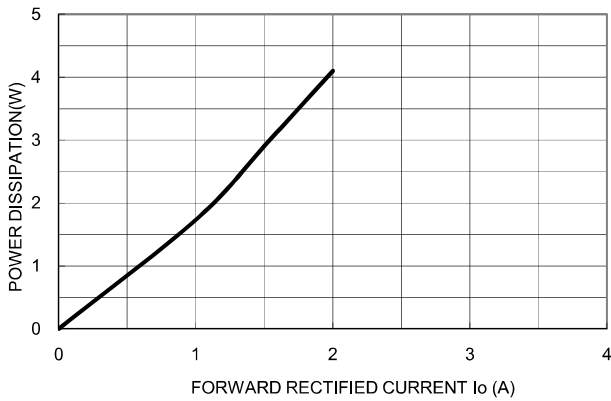
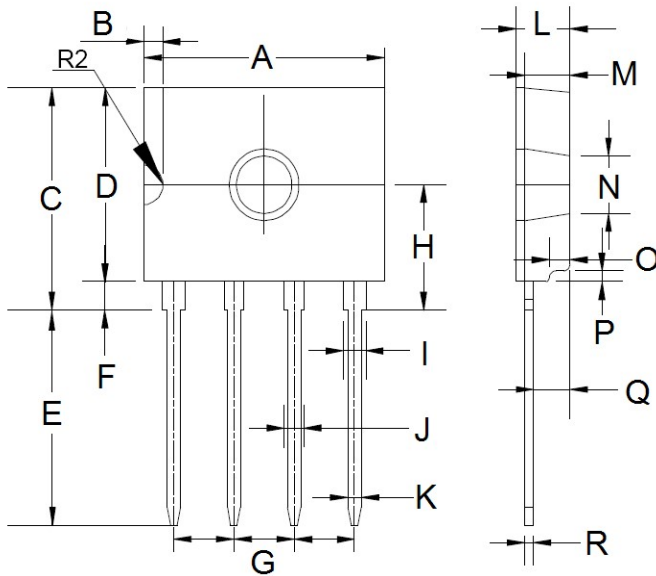


FIG. 5 FORWARD POWER DISSIPATION



**PACKAGE OUTLINE DIMENSIONS**



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	13.50	14.10	0.531	0.555
B	0.70	1.40	0.028	0.055
C	11.70	12.30	0.461	0.484
D	10.50	11.10	0.413	0.437
E	11.70	12.30	0.461	0.484
F	1.10	1.40	0.043	0.055
G	3.51	4.11	0.138	0.162
H	6.70	7.30	0.264	0.287
I	1.10	1.50	0.043	0.059
J	1.05	1.25	0.041	0.049
K	0.66	0.86	0.026	0.034
L	2.90	3.30	0.114	0.130
M	2.40	2.80	0.094	0.110
N	3.10	3.40	0.122	0.134
O	1.00	1.40	0.039	0.055
P	0.40	0.80	0.016	0.031
Q	1.80	2.40	0.071	0.094
R	0.40	0.60	0.016	0.024

**MARKING DIAGRAM**



- P/N = Specific Device Code
- G = Green Compound
- YWW = Date Code
- F = Factory Code

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