



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

Terminal. Matte in plated leads, solderable per seedez B 102		6	0	0	6	
Meet JESD 201 class 1A whisker test		+	~	~	_	
Weight: 1.24 g (approximately)						
Mounting Torque: 0.8 N.M max.						
MAXIMUM RATINGS AND ELECTRICAL CHARACT	ERISTICS	(T _A =25°C	unle	ss othe	rwise no	te
DADAMETED	SYMBOL	UR3KI	В	UR	3КВ	
PARAMETER	STIVIBUL	60		8	30	
Maximum repetitive peak reverse voltage	V_{RRM}	600		8	00	
			_			

PARAMETER	SYMBOL	UR3KB	UR3KB	UR3KB	LINUT	
PARAIVIE I ER	STIVIBUL	60	80	100	UNIT	
Maximum repetitive 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 _{F(AV)}	1.2 3.0			А	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	90			А	
Rating of fusing (t < 8.3ms)	l ² t		35		A ² s	
Maximum instantaneous forward voltage (Note 1) $I_F = 1.5 \text{ A}$	V _F	1.0			V	
Maximum DC reverse current at rated DC blocking voltage	I _R	10			μΑ	
Dielectric Strength (Terminal to Case, AC 1minute)	Vdis		2		KV	
Typical Thermal Resistance	R _{θJC} R _{θJL} R _{θJA}	5.2 5.5 13.7		°C/W		
perating junction temperature range T _J - 55 to +150			оС			
Storage temperature range	T_{STG}	- 55 to +150			οС	

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

Document Number: DS_D1312018 Version: H13



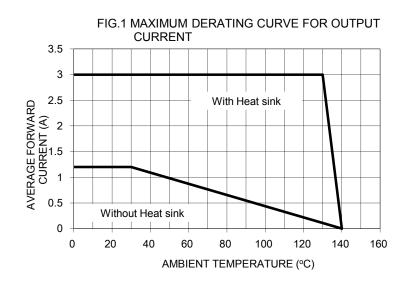
ORDERING INFORMATION					
PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING	
UR3KBx0 (Note 1)	C2	Suffix "G"	D3K	1,500 / BOX	

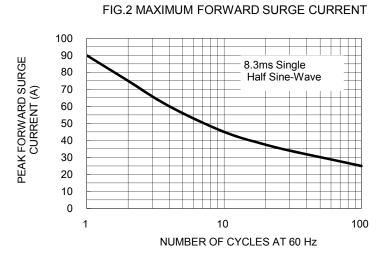
Note 1: "x" defines voltage from 600V (UR3KB60) to 1000V (UR3KB100)

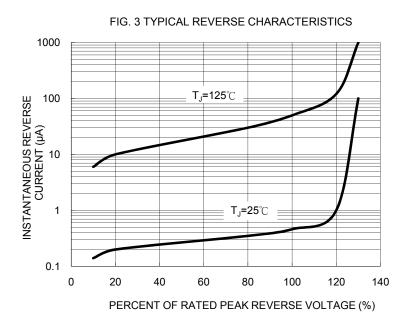
EXAMPLE					
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION	
UR3KB60 C2	UR3KB60	C2			
UR3KB60 C2G	UR3KB60	C2	G	Green compound	

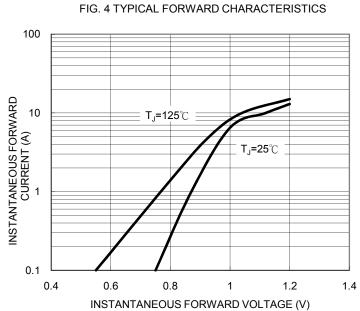
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)





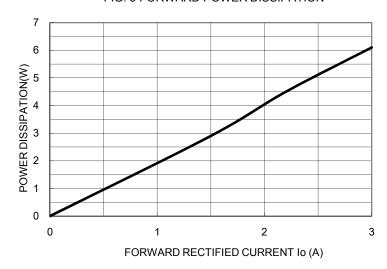




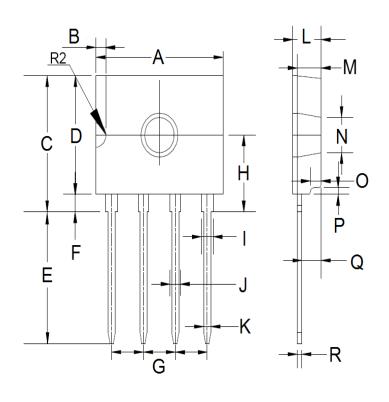
Document Number: DS_D1312018 Version: H13



FIG. 5 FORWARD POWER DISSIPATION



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit(mm)		Unit(inch)	
DIIVI.	Min	Max	Min	Max
Α	13.50	14.10	0.531	0.555
В	0.70	1.40	0.028	0.055
С	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
Н	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
М	2.40	2.80	0.094	0.110
N	3.10	3.40	0.122	0.134
0	1.00	1.40	0.039	0.055
Р	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

Document Number: DS_D1312018 Version:H13







Notice

Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its behalf, assumes no responsibility or liability for any errors inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied,to any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditions of sale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or seling these products for use in such applications do so at their own risk and agree to fully indemnify TSC for any damages resulting from such improper use or sale.

Document Number: DS_D1312018 Version:H13