Glass Passivated Bridge Rectifier

FEATURES

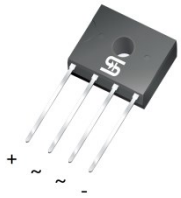
- Ideal for printed circuit board
- High case dielectric strength
- High surge current capability
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21

KEY PARAMETERS		
PARAMETER	**VALUE**	**UNIT**
V_{RRM}	600 - 1000	V
I_{FSM}	90	A
$T_{J\ MAX}$	150	°C
Package	D3K	
Configuration	Quad	

APPLICATIONS

- Switching mode power supply (SMPS)
- Adapters
- TV
- Monitor

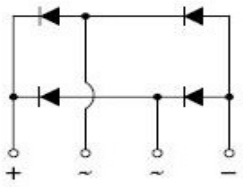
Pb-Free RoHS COMPLIANT HALOGEN FREE



D3K

MECHANICAL DATA

- Case: D3K
- Molding compound meets UL 94V-0 flammability rating
- Packing code with suffix "G" means green compound (halogen-free)
- Terminal：Matte tin plated leads, solderable per J-STD-002
- Meet JESD 201 class 1A whisker test
- Weight: 1.24 g (approximately)
- Mounting Torque: 0.8 N.M max.



ABSOLUTE MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)

PARAMETER		SYMBOL	UR3KB60	UR3KB80	UR3KB100	UNIT
Marking code on the device			UR3KB60	UR3KB80	UR3KB100	
Repetitive peak reverse voltage		V_{RRM}	600	800	1000	V
Reverse voltage, total rms value		$V_{R(RMS)}$	420	560	700	V
Maximum DC blocking voltage		V_{DC}	600	800	1000	
Maximum average forward current 60Hz sine wave resistance load	Without heat sink T_A=29°C	$I_{F(AV)}$	1.2			A
	With heat sink T_C=140°C		3.0			
Surge peak forward current, 8.3 ms single half sine-wave superimposed on rated load		I_{FSM}	90			A
I^2t value (of a surge on-state current)(1)		I^2t	35			A^2s
Junction temperature		T_J	-55 to +150			°C
Storage temperature		T_{STG}	-55 to +150			°C

Note:

1. Pulse test with PW=8.3 ms

THERMAL PERFORMANCE			
PARAMETER	**SYMBOL**	**LIMIT**	**UNIT**
Junction-to-lead thermal resistance	$R_{\Theta JL}$	5.5	°C/W
Junction-to-ambient thermal resistance	$R_{\Theta JA}$	13.7	°C/W
Junction-to-case thermal resistance	$R_{\Theta JC}$	5.2	°C/W

ELECTRICAL SPECIFICATIONS (T_A = 25°C unless otherwise noted)					
PARAMETER	**CONDITIONS**	**SYMBOL**	**TYP**	**MAX**	**UNIT**
Forward voltage (1)	I_F = 1.5 A, T_J = 25°C	V_F	-	1.0	V
Reverse current @ rated V_R (2)	T_J = 25°C	I_R	-	10	μA

Notes:

1. Pulse test with PW=0.3 ms
2. Pulse test with PW=30 ms

ORDERING INFORMATION				
PART NO.	**PACKING CODE**	**PACKING CODE SUFFIX**	**PACKAGE**	**PACKING**
UR3KBx0 (Note 1,2)	C2	G	D3K	1,500 / BOX

Notes:

1. "x" defines voltage from 600V (UR3KB60) to 1000V (UR3KB100)
2. Whole series with green compound

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

RATINGS AND CHARACTERISTICS CURVES

(T_A = 25°C unless otherwise noted)

Fig1. Maximum Derating Curve For Output current

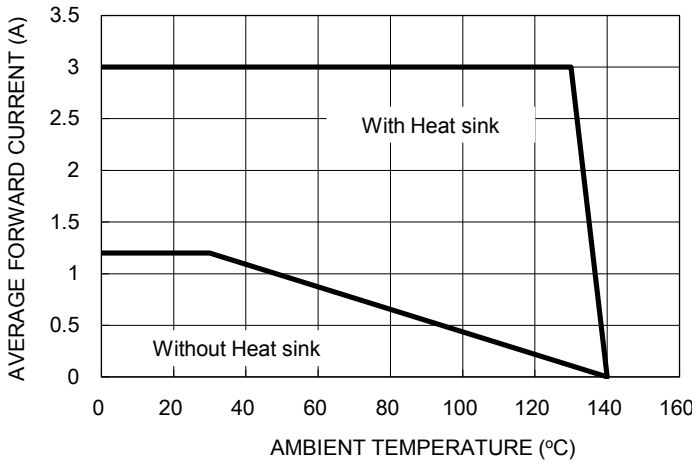


Fig2. Maximum Forward Surge Current

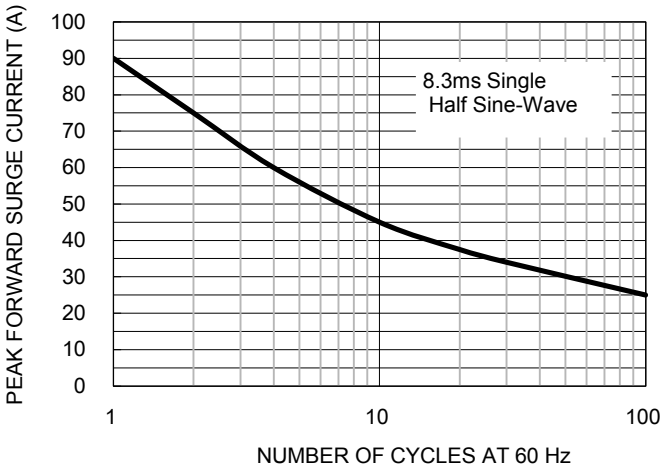


Fig3. Typical Reverse Characteristics

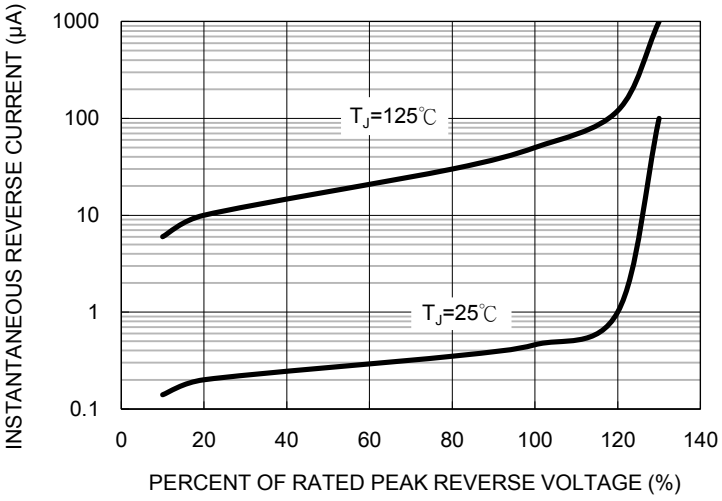


Fig4. Typical Forward Characteristics

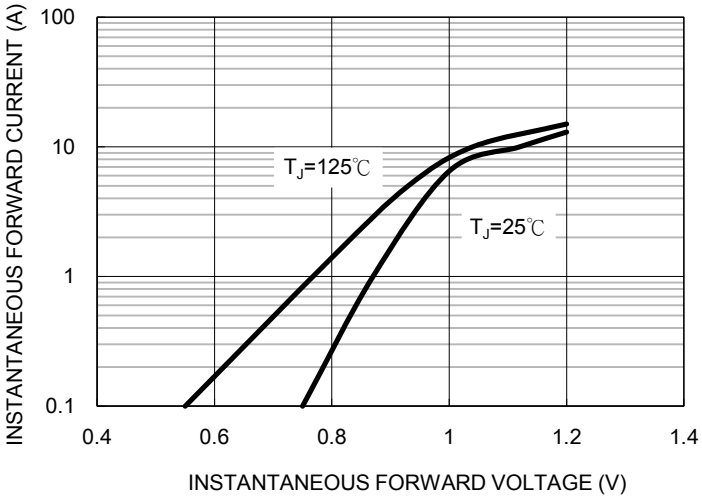
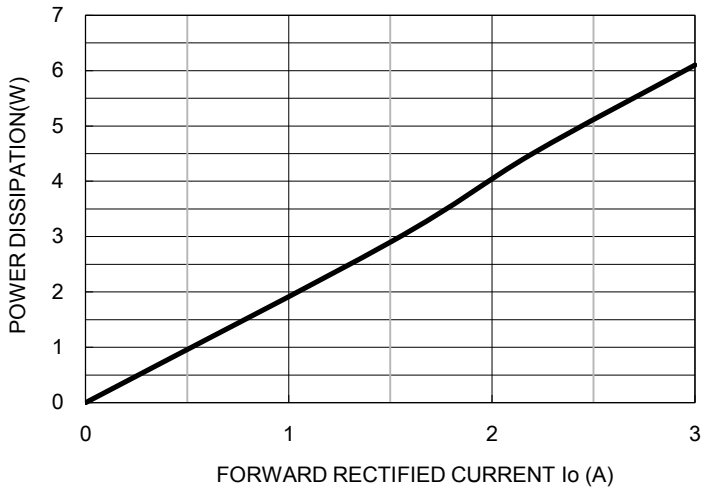
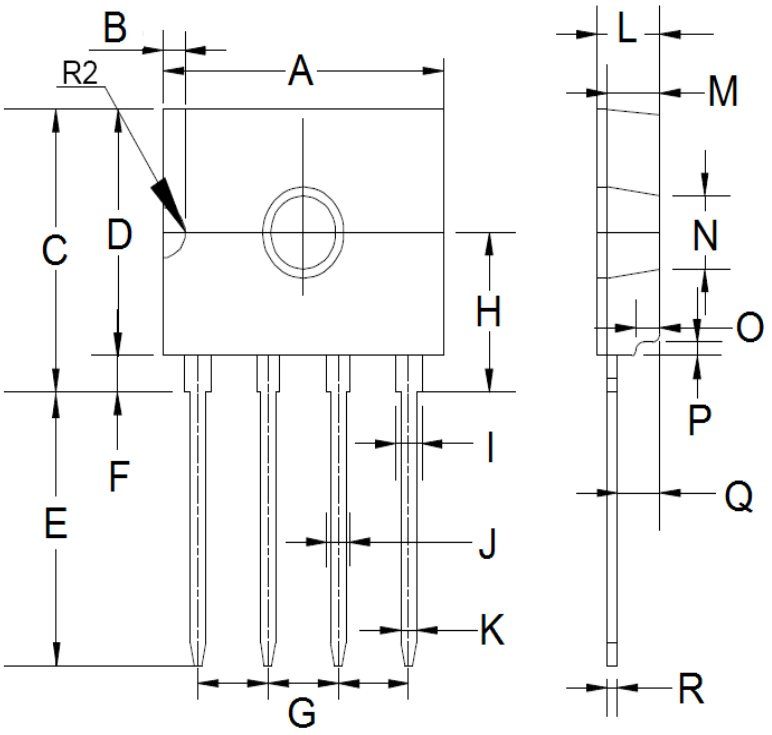


Fig5. Forward Power Dissipation



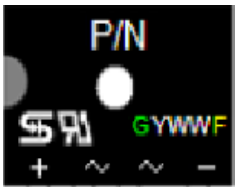
PACKAGE OUTLINE DIMENSIONS

D3K



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	= Marking Code
G	= Green Compound
YWW	= Date Code
F	= Factory Code

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Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:
moschip.ru
moschip.ru_4
moschip.ru_6
moschip.ru_9