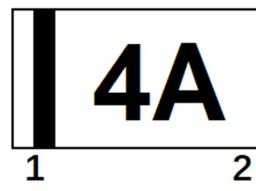


Features

- * Low forward voltage drop
- * Low reverse current
- * RoHS Compliant
- * REACH & SVHC Compliant
- * Halogen Compliant
- * DFN1006-2L Package

Package and Marking Diagram



DFN1006-2L

Top view

Circuit Diagram



Ordering Information

Part Number	Packaging	Reel Size
DB2G40800L1-CN	10000/Tape & Reel	7 inch

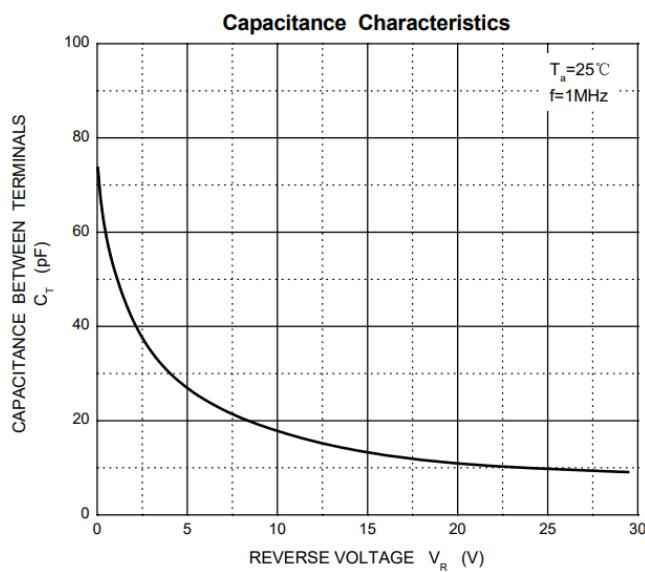
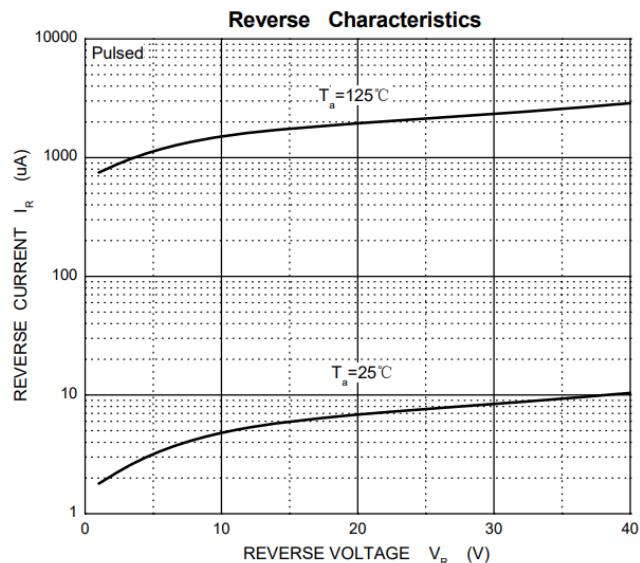
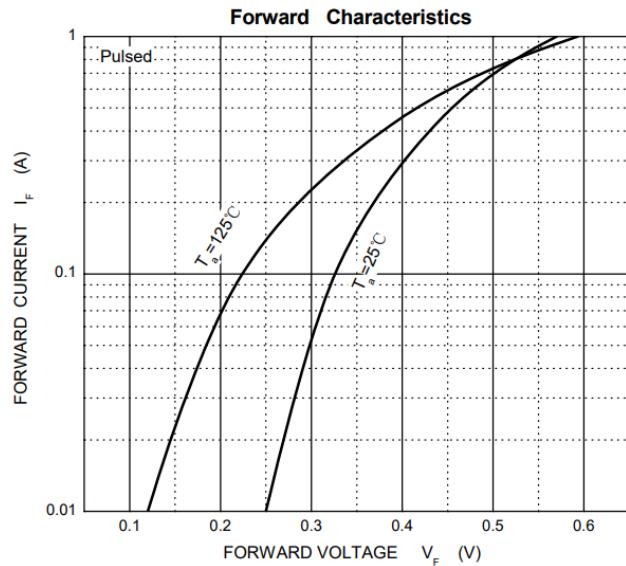
Absolute Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Repetitive peak reverse voltage	V_{RRM}	40	V
DC blocking voltage	V_R	40	V
RMS reverse voltage	$V_{R(RMS)}$	28	V
Continuous forward current	I_O	1	A
Non-repetitive peak forward current @ $t=8.3\text{ms}$	I_{FSM}	7	A
Power dissipation	P_D	500	mW
Junction temperature	T_J	-40 to +125	°C
Storage temperature	T_{STG}	-55 to +150	°C

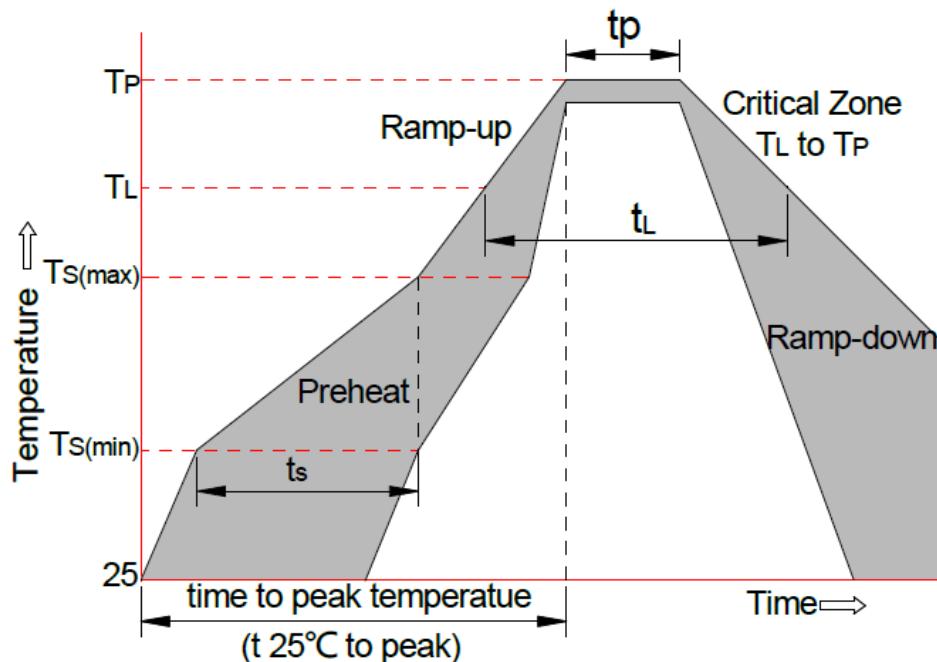
Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V_{BR}	$I_T = 1\text{mA}$	40			V
Reverse current	I_R	$V_R = 40\text{V}$		10	40	uA
Forward voltage	V_F	$I_F = 0.1\text{A}$		330	380	mV
Forward voltage	V_F	$I_F = 0.5\text{A}$		450	490	mV
Forward voltage	V_F	$I_F = 1\text{A}$		570	610	mV
Diode capacitance	C_D	$V_R = 10\text{V}, f = 1\text{MHz}$		19		pF

Typical Performance Characteristics

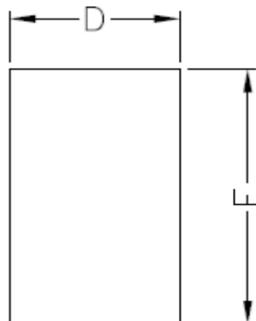


Soldering Parameters

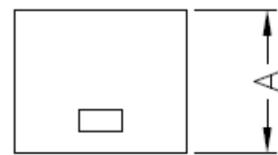
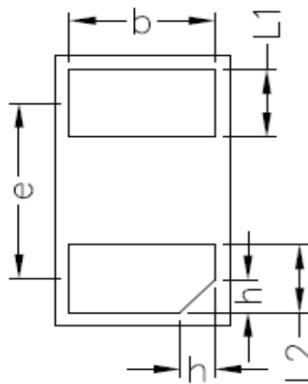


Reflow Conditions		Pb-Free Assembly
Pre-heat	-Temperature Min (Ts (min))	+150°C
	-Temperature Max (Ts (max))	+200°C
	-Time (Min to Max) (ts)	60-180 secs
Average ramp up rate(Liquid us Temp (TL) to peak)		3°C/sec. Max
TS (max) to TL-Ramp-up Rate		3°C/sec. Max
Reflow	-Temperature (TL) (Liquid us)	+217°C
	-Temperature (tL)	60-150 secs
Peak Temp (Tp)		+260(+0/-5)°C
Time within 5°C of actual Peak Temp (tp)		30 secs. Max
Ramp-down Rate		6 °C/secs. Max
Time 25°C to Peak Temp (TP)		8 min. Max
Do not exceed		+260°C

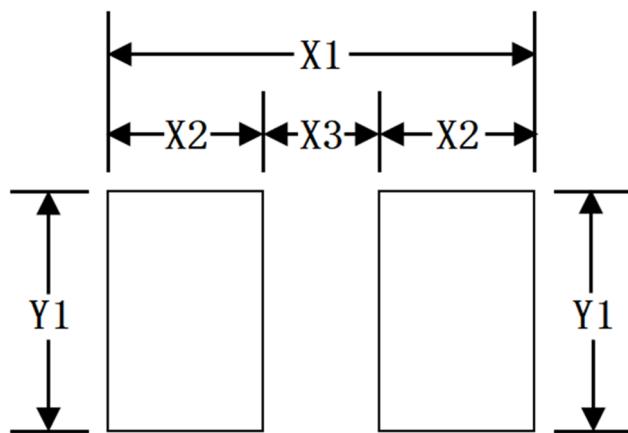
DFN1006-2L Package Outline Drawing



SYM	DIMENSIONS					
	MILLIMETERS			INCHES		
	Min	Typ	Max	Min	Typ	Max
A	0.50	0.55	0.60	0.020	0.022	0.024
D	0.55	0.60	0.65	0.022	0.024	0.026
E	0.95	1.00	1.05	0.037	0.039	0.041
L1	0.20	0.25	0.30	0.008	0.010	0.012
L2	0.20	0.25	0.30	0.008	0.010	0.012
b	0.45	0.50	0.55	0.018	0.020	0.022
e	0.65 BSC			0.026 BSC		
h	0.07	0.12	0.17	0.003	0.005	0.007



Suggested Land Pattern



SYM	DIMENSIONS	
	MILLIMETERS	INCHES
X1	1.10	0.044
X2	0.40	0.016
X3	0.30	0.012
Y1	0.60	0.024

Note:

- General tolerance: ± 0.05 mm or ± 0.002 inch.
- The land pattern is for reference purposes only.

NOTICE

The information presented in this document is for reference only. Involving product optimization and productivity improvement, ChipNobo reserves the right to adjust product indicators and upgrade some technical parameters. ChipNobo is entitled to be exempted from liability for any delay or non-delivery of the information disclosure process that occurs.

本文件中提供的信息仅供参考。涉及产品优化和生产效率改善，ChipNobo 有权调整产品指标和部分技术参数的升级，所出现信息披露过程存在延后或者不能送达的情形，ChipNobo 有获免责权。

The product listed herein is designed to be used with residential and commercial equipment, and do not support sensitive items and specialized equipment in areas where sanctions do exist. ChipNobo Co., Ltd or anyone on its behalf, assumes no responsibility or liability for any damages resulting from improper use.

此处列出的产品旨在民用和商业设备上使用，不支持确有制裁地区的敏感项目和特殊设备，ChipNobo 有限公司或其代表，对因不当使用而造成的任何损害不承担任何责任。

For additional information, please visit our website <http://www.chipnobo.com>, or consult your nearest Chipnobo sales office for further assistance.

欲了解更多信息，请访问我们的网站 <http://www.chipnobo.com>，或咨询离您最近的 Chipnobo 销售办事处以获得进一步帮助。