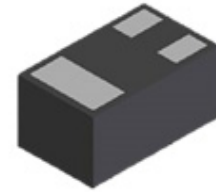
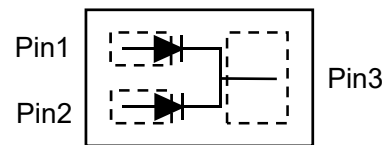


**Feature**

- Forward Current: 200mA
- Reverse voltage: 40V
- Low forward voltage
- Low leakage current
- Trench MOS barrier Schottky technology
- Ultra Small mold type. (DFN1006-3L)


**DFN1006-3L(Bottom View)**
**Applications**

- Low current rectification
- Voltage clamping
- Protection circuits
- Ultra high-speed switching


**Circuit Diagram**
**Mechanical Characteristics**

- Mounting position: Any
- Qualified max reflow temperature: 260°C
- Device meets MSL 1 requirements


**Marking (Top View)**
**Electrical characteristics per line@25°C (unless otherwise specified)**

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Forward voltage	$V_F$	$I_F = 200\text{mA}$	-	0.55	0.8	V
Reverse current	$I_R$	$V_R = 40\text{V}$	-	0.1	2.0	$\mu\text{A}$
Junction Capacitance	$C_J$	$V_R = 4\text{V}, f = 1\text{MHz}$	-	10	25	pF

**Absolute maximum rating@25°C**

Rating	Symbol	Value	Units
Reverse voltage (DC)	$V_{RM}$	40	V
Average rectified forward current	$I_o$	200	mA
Non-Repetitive Peak Forward Surge Current(8.3ms single half sine-wave superimposed on rated load)	$I_{FSM}$	1.0	A
Junction and Storage Temperature Range	$T_J, T_{STG}$	-55~+150	°C

Typical Characteristics

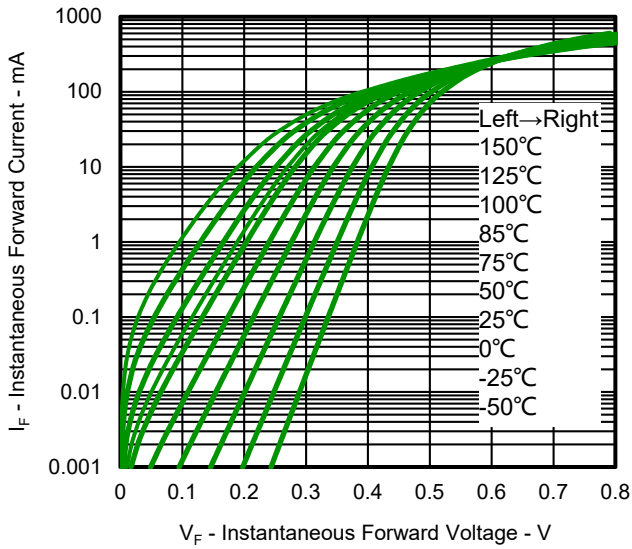


Fig.1 Typical Forward Characteristics

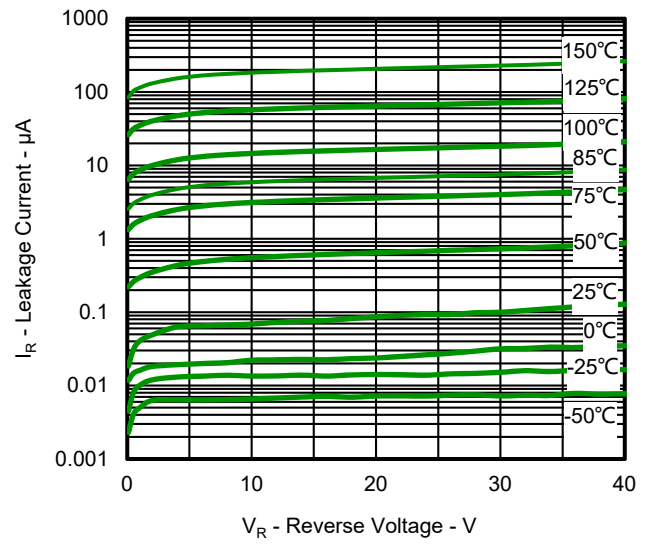


Fig.2 Leakage Current

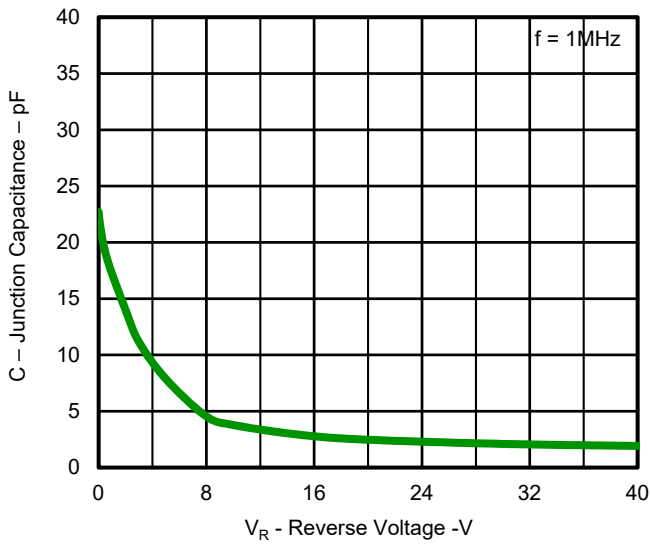
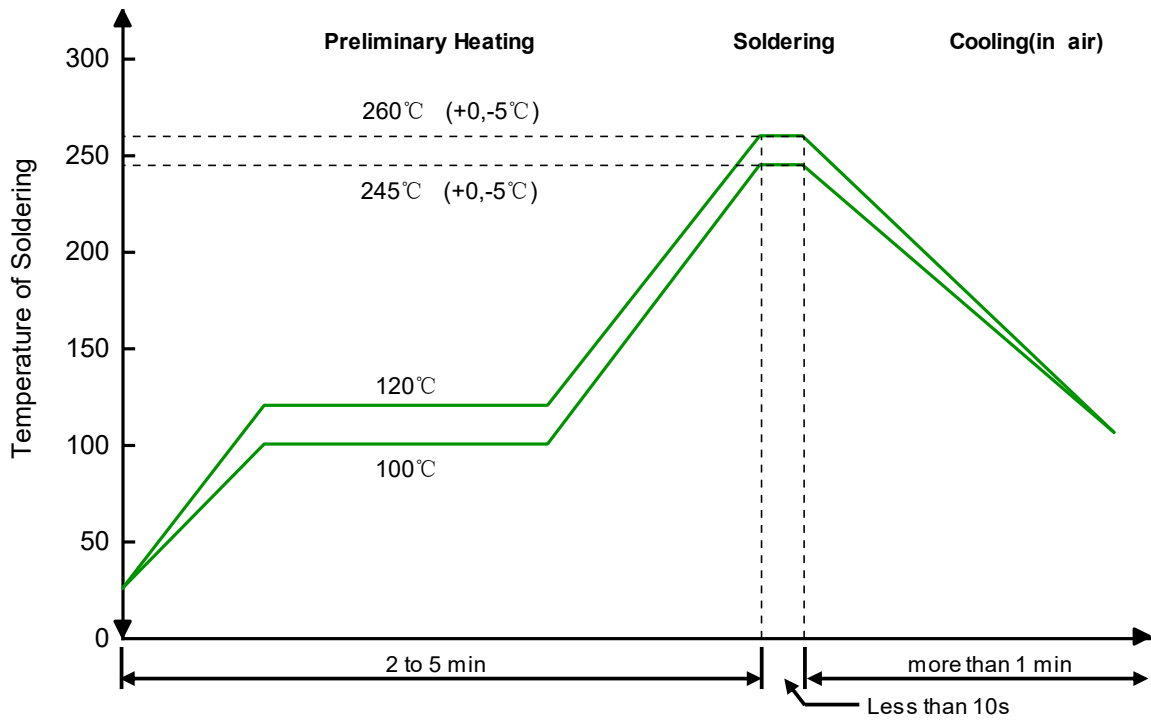


Fig.3 Capacitance vs. Reverse Voltage

Solder Reflow Recommendation

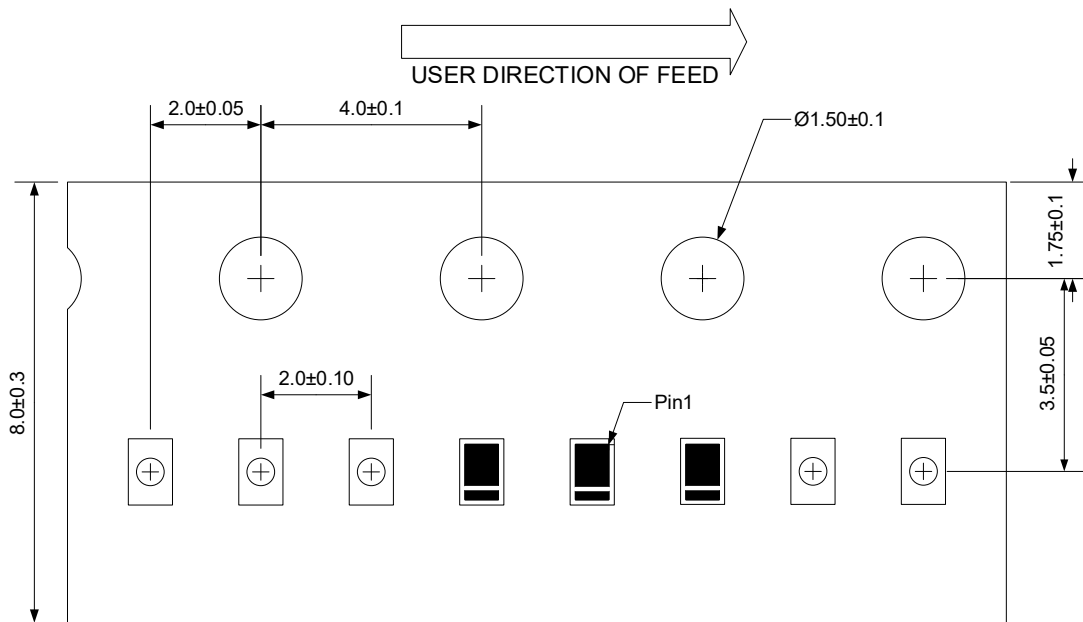


Remark: Pb free for 260°C; Pb for 245°C.

Ordering information

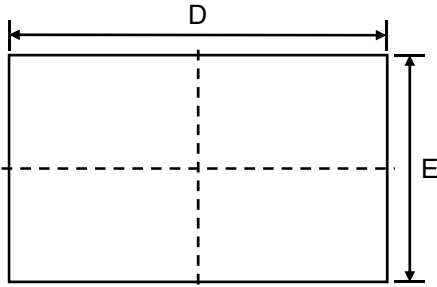
Package	Reel	Shipping
DFN1006-3L	7"	10000 / Tape & Reel

Load with information

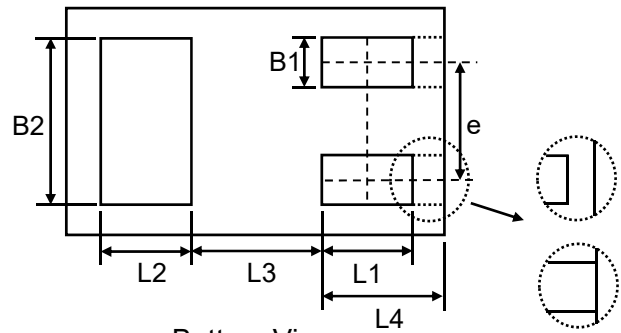


Unit:mm

Product dimension (DFN1006-3L)



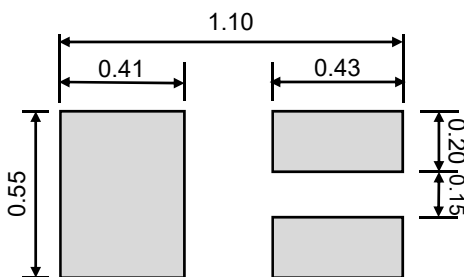
Top View



Bottom View



Side View




Suggested PCB Layout

Dim	Millimeters		Inches	
	Min	Max	Min	Max
A	0.33	0.55	0.013	0.022
B	0.00	0.05	0.000	0.002
B1	0.10	0.20	0.004	0.008
B2	0.45	0.55	0.018	0.022
D	0.90	1.05	0.035	0.041
E	0.50	0.65	0.020	0.026
e	0.35		0.014	
L1	0.20	0.30	0.008	0.012
L2	0.20	0.30	0.008	0.012
L3	0.39		0.015	
L4	0.25	0.35	0.010	0.014

Unit: mm


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