

### Feature

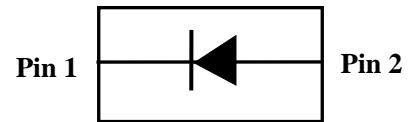
- Ultra Small mold type. DFN1006-2L
- Low  $I_R$
- High reliability.



**DFN1006-2L(Bottom View)**

### Applications

- Low current rectification



**Circuit Diagram**

### Construction

- Silicon epitaxial planar



**Marking (Top View)**

### Mechanical Characteristics

- Mounting position: Any
- Qualified max reflow temperature:260°C
- Device meets MSL 1 requirements
- DFN1006-2L without plating

### Electrical characteristics per line@25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.37	V	$I_F=10mA$
Reverse current	$I_R$	-	-	10	$\mu A$	$V_R=10V$

## Absolute maximum rating@25°C

Parameter	Symbol	limits	Unit
Reverse voltage (DC)	$V_{RM}$	40	V
Average rectified forward current	$I_o$	100	mA
Forward current surge peak (60Hz 1cyc)	$I_{FSM}$	500	mA
Operating Junction temperature Range	$T_j$	-55 to 125	°C
Storage temperature	$T_{stg}$	-55 to 125	°C

## Typical Characteristics

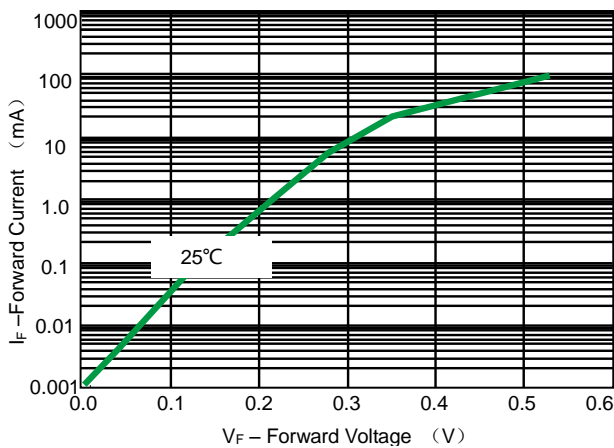


Fig 1. Forward Voltage

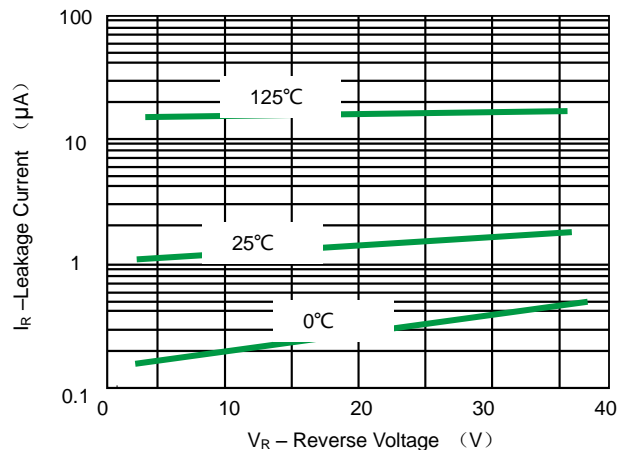


Fig 2. Leakage Current

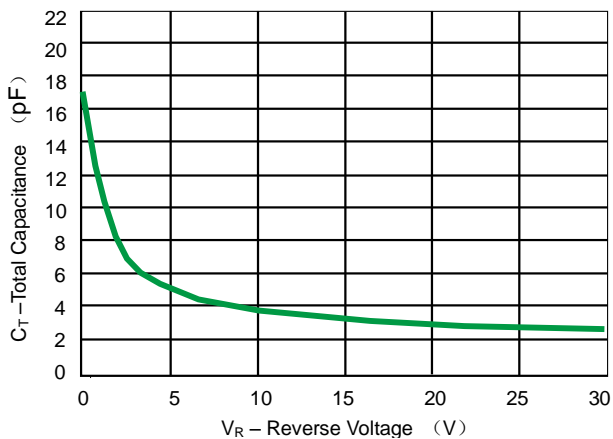
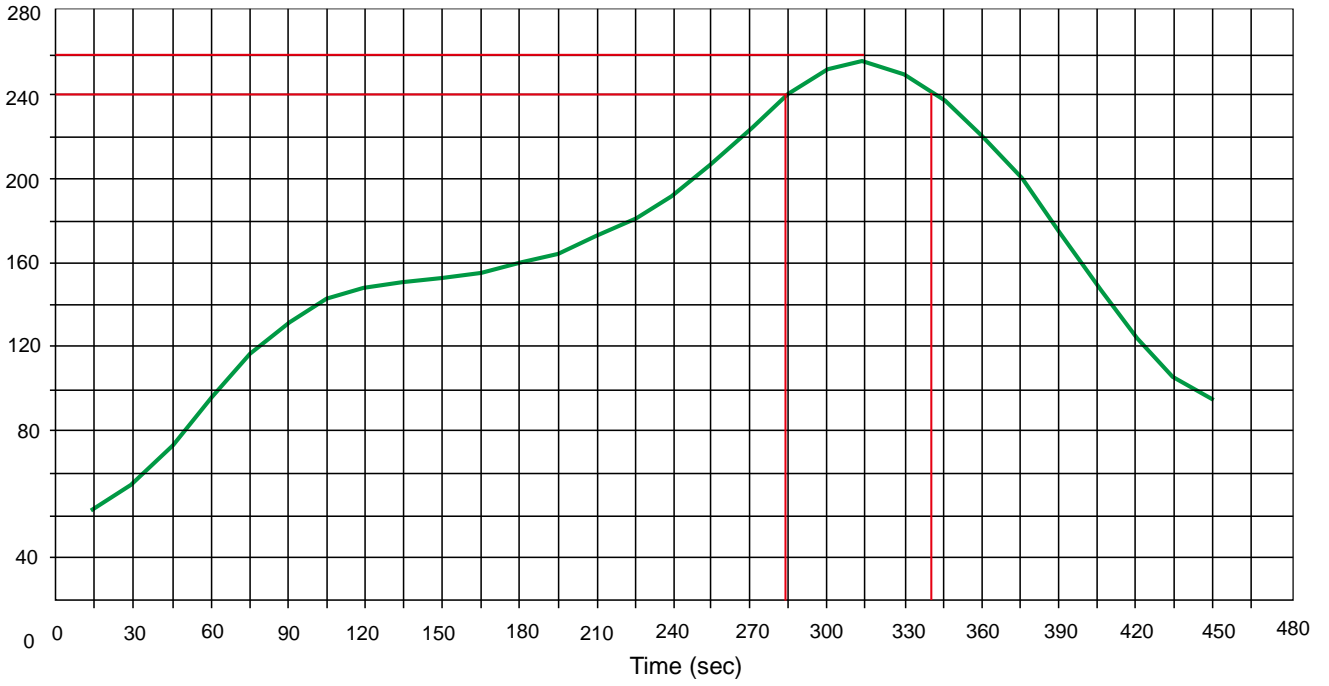


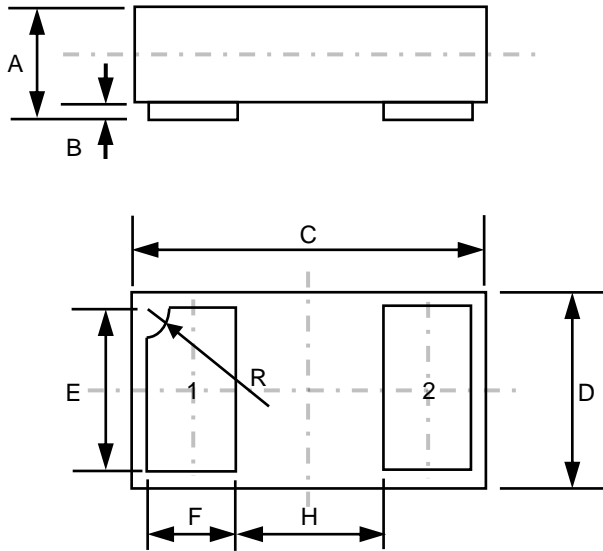
Fig 3. Total Capacitance

Solder Reflow Recommendation

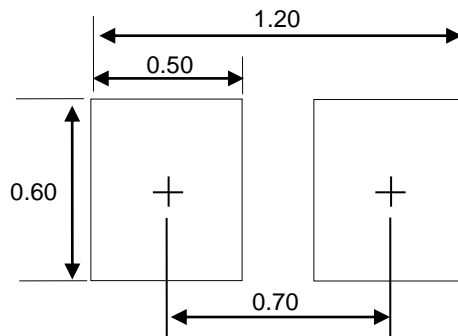
Peak Temp=257°C, Ramp Rate=0.802deg. °C/sec



Product dimension (DFN1006-2L)



Dim	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.013	0.020	0.34	0.50
B	0.000	0.002	0.00	0.05
C	0.037	0.043	0.95	1.080
D	0.022	0.027	0.55	0.680
E	0.016	0.024	0.40	0.60
F	0.008	0.012	0.20	0.30
H	0.015Typ.		0.40Typ.	
R	0.001	0.005	0.05	0.15



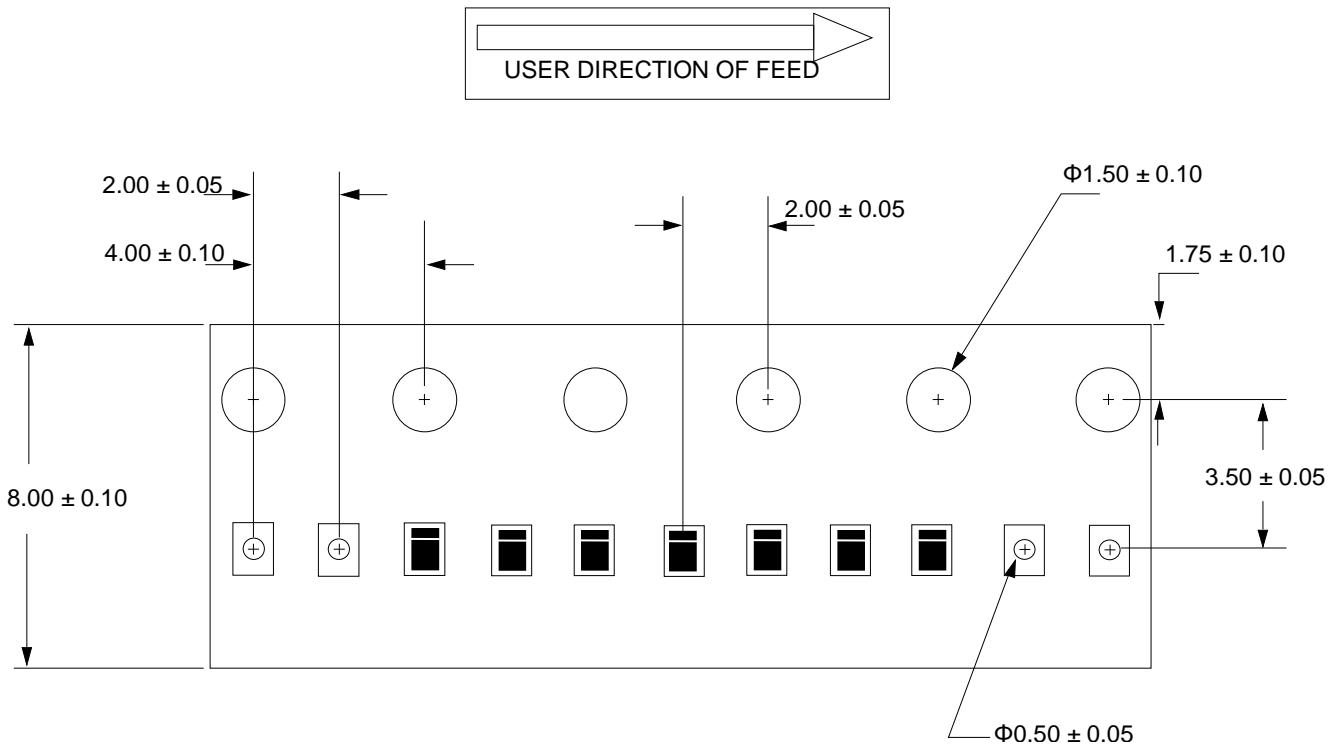
Unit:mm

Suggested PCB Layout

Ordering information


Device	Package	Reel	Shipping
PSBD2FD40V01	DFN1006-2L (Pb-Free)	7"	10000 / Tape & Reel

Load with information



Unit: mm


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