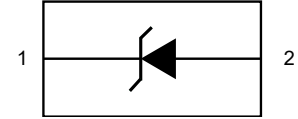


**Description**

The PZ2FD4V2H is packaged in a DFN1006-2L surface mount package that has a power dissipation of 250mW. They are designed to provide voltage regulation protection and are especially attractive in situations where space is at a premium.



**Feature**

- Standard zener breakdown voltage range 5.1V
- DFN1006-2L package
- Steady state power rating of 250mW
- ESD rating of class 3(>16kV)per human body model
- RoHS compliant transient

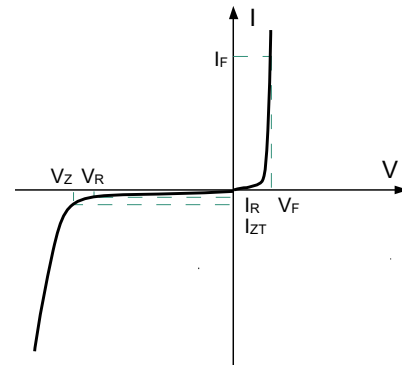
**Applications**

- Cellular phones
- Hand held portables
- High density PC boards

**Mechanical Characteristics**

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

**Electronics Parameter**



**Electrical characteristics per line@( unless otherwise specified)**

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Zener Voltage	V <sub>Z</sub>	I <sub>ZT</sub> = 5mA	4.9	5.1	5.6	V
Maximum Zener Impedance	Z <sub>ZT</sub>	I <sub>ZT</sub> = 5mA	-	-	55	Ω
Maximum Zener Impedance	Z <sub>ZK</sub>	I <sub>ZK</sub> =0.5mA	-	-	500	Ω
Reverse Leakage Current	I <sub>R</sub>	V <sub>R</sub> =4.2V	-	-	20	μA
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 100mA	-	-	1.25	V
Max.Capacitance	C	V <sub>R</sub> =4V, f = 1MHz	-	-	300	pF

## Absolute maximum rating@25°C

Rating	Symbol	Value	Units
Total Device Dissipation FR-5 Board	$P_D$	250	mW
Thermal Resistance, Junction-to-Ambient	$R_{\theta JA}$	500	°C/W
Storage Temperature	$T_J, T_{STG}$	-65 to +150	°C

## Typical Characteristics

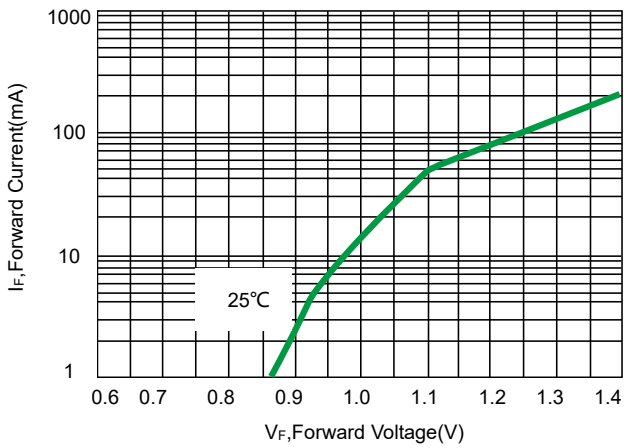


Fig 1. Typical Forward Voltage

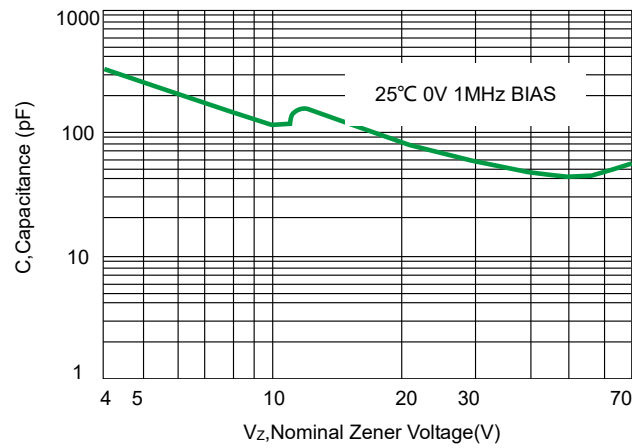


Fig 2. Typical Capacitance

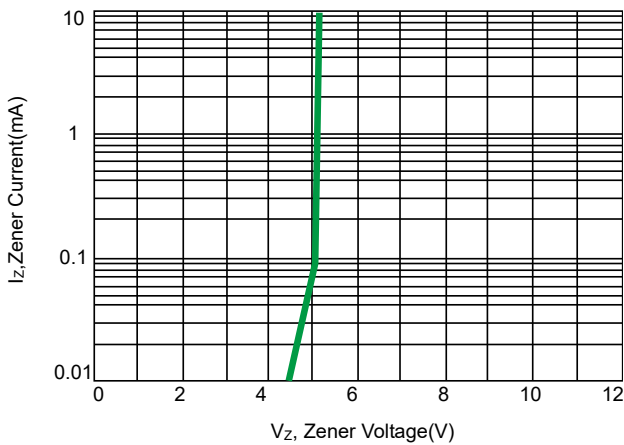


Fig 3. Zener Voltage versus Zener Current

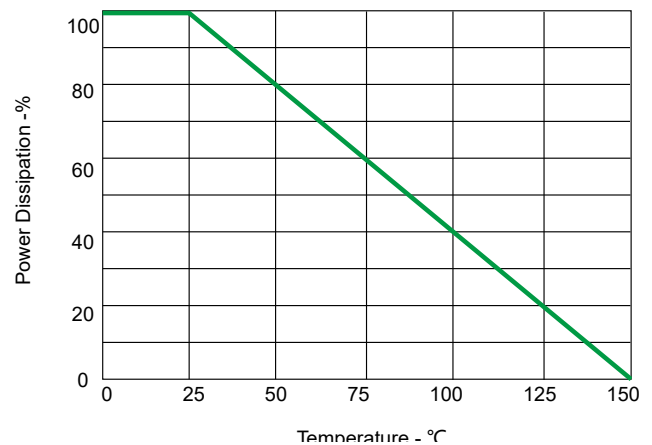
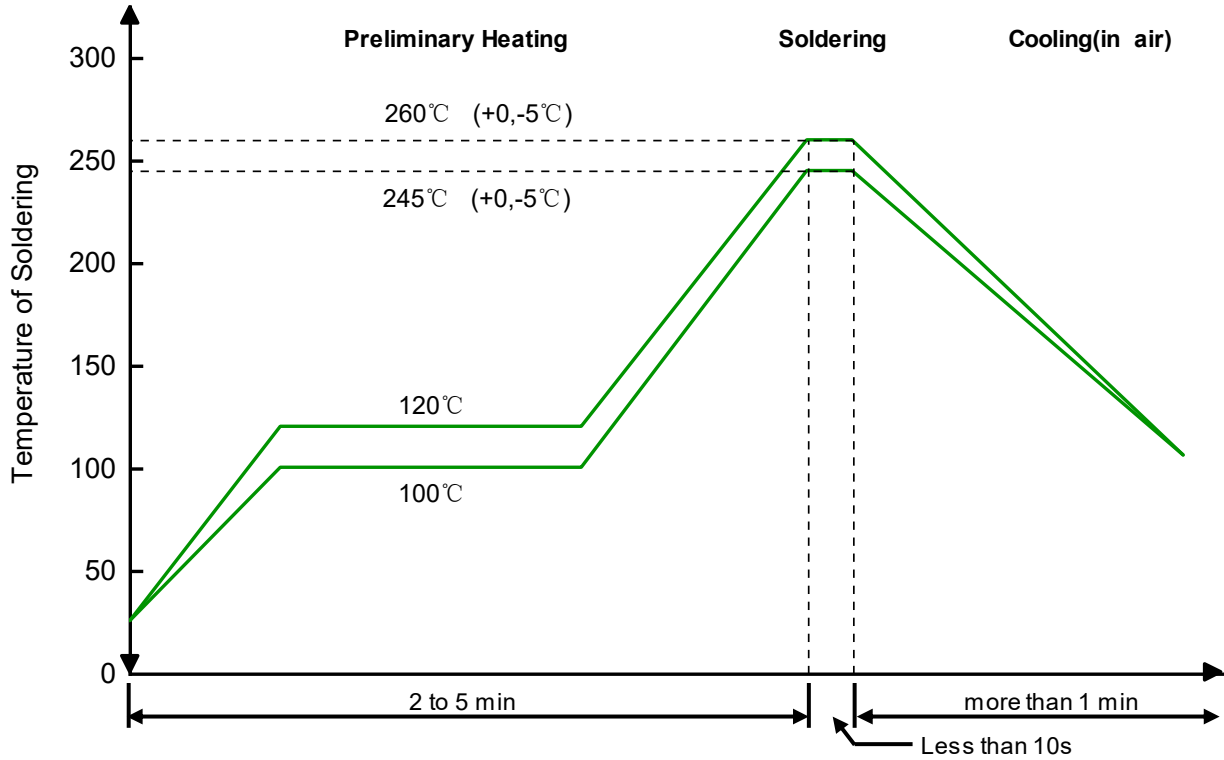


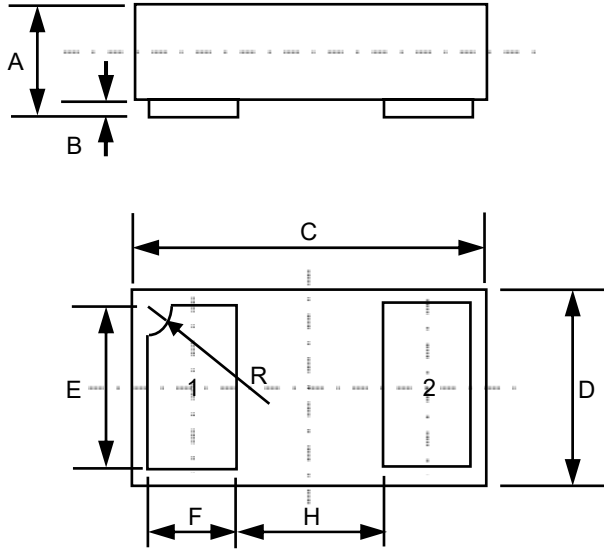
Fig 4. Steady State Power Detating

Solder Reflow Recommendation

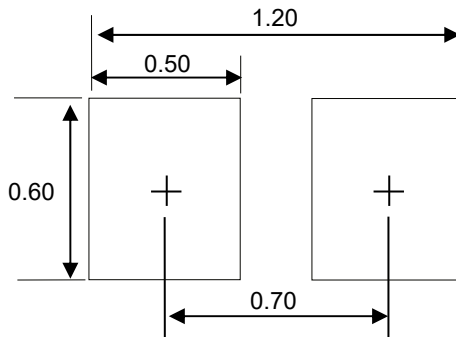


Remark: Pb free for 260°C; Pb for 245°C.

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

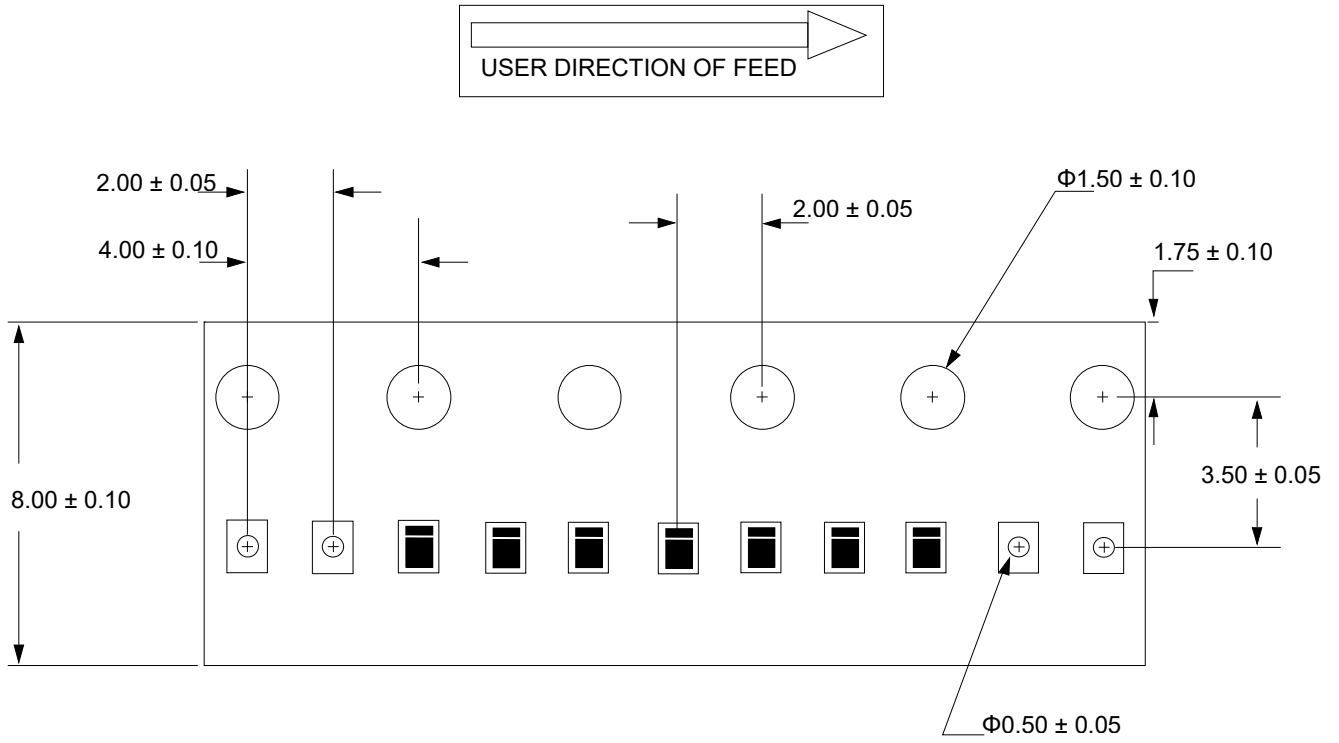
Ordering information



Ordering information


Device	Package	Reel	Shipping
PZ2FD4V2H	DFN1006-2L (Pb-Free)	7"	10000 / Tape & Reel

Load with information



Unit: mm

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