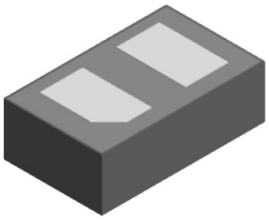
Prisemi®

PZ2FD2VH

Zener Voltage Regulator

Description

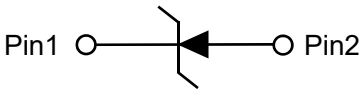
The PZ2FD2VH is packaged in a DFN1006-2L surface mount package that has a power dissipation of 200mW. They are designed to provide voltage regulation protection and are especially attractive in situations where space is at a premium.



DFN1006-2L(Bottom View)

Feature

- Steady state power rating of 200mW
- General purpose, medium current
- ESD rating of class 3(>16kV)per human body model
- RoHS compliant transient

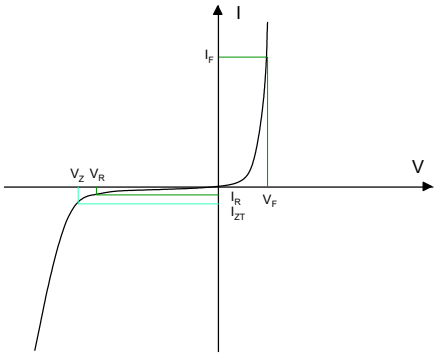


Circuit Diagram

Applications

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

Electronics Parameter



Mechanical Characteristics

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

Electrical characteristics per line@25℃ (unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Zener Voltage	V_Z	I_{ZT} = 5mA	1.9	2.0	2.1	V
Maximum Zener Impedance	Z_{ZT}	I_{ZT} = 5mA	-	-	100	Ω
Maximum Zener Impedance	Z_{ZK}	I_{ZK} = 1mA	-	-	600	Ω
Reverse Leakage Current	I_R	V_R = 1.0V	-	-	90	μA
Forward Voltage	V_F	I_F = 10mA	-	0.8	-	V
Capacitance	C	V_R=0V, f=1MHz	-	140	-	pF

Absolute maximum rating@25℃

Rating	Symbol	Value	Units
Power Dissipation	P_D	200	mW
Junction Temperature	T_J	-55 to +150	℃
Storage Temperature	T_{STG}	-55 to +150	℃

Typical Characteristics

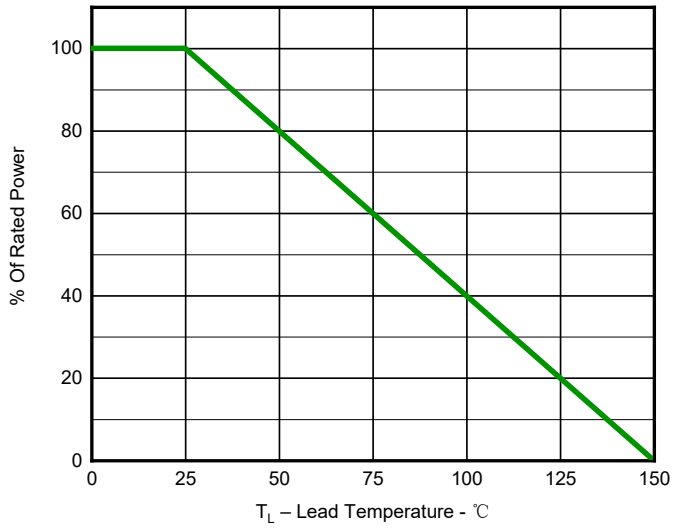


Fig 1.Power Derating Curve

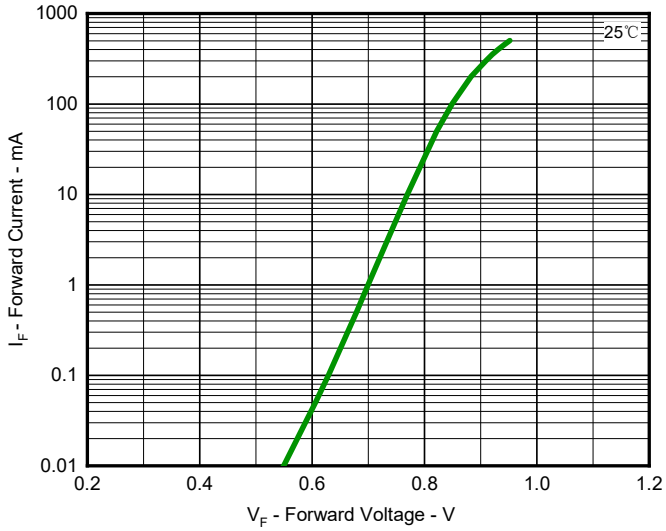


Fig 2.Typical Forward Voltage

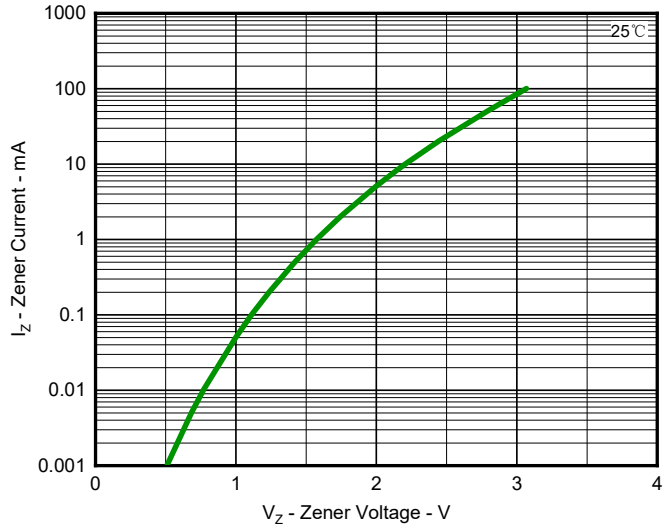


Fig 3.Zener Voltage versus Zener Current

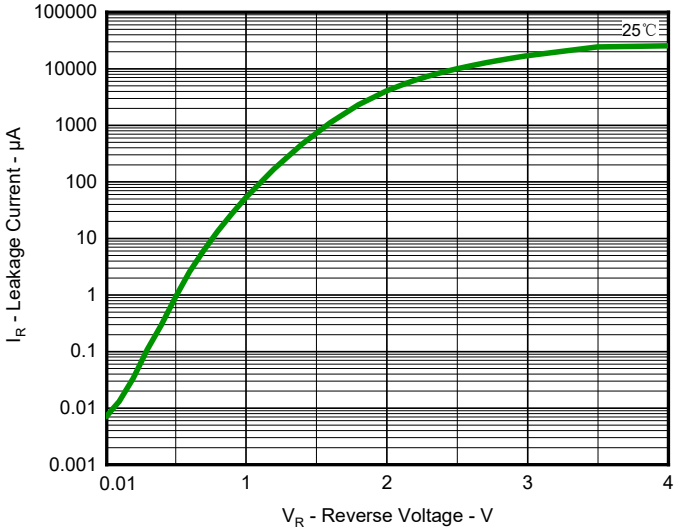
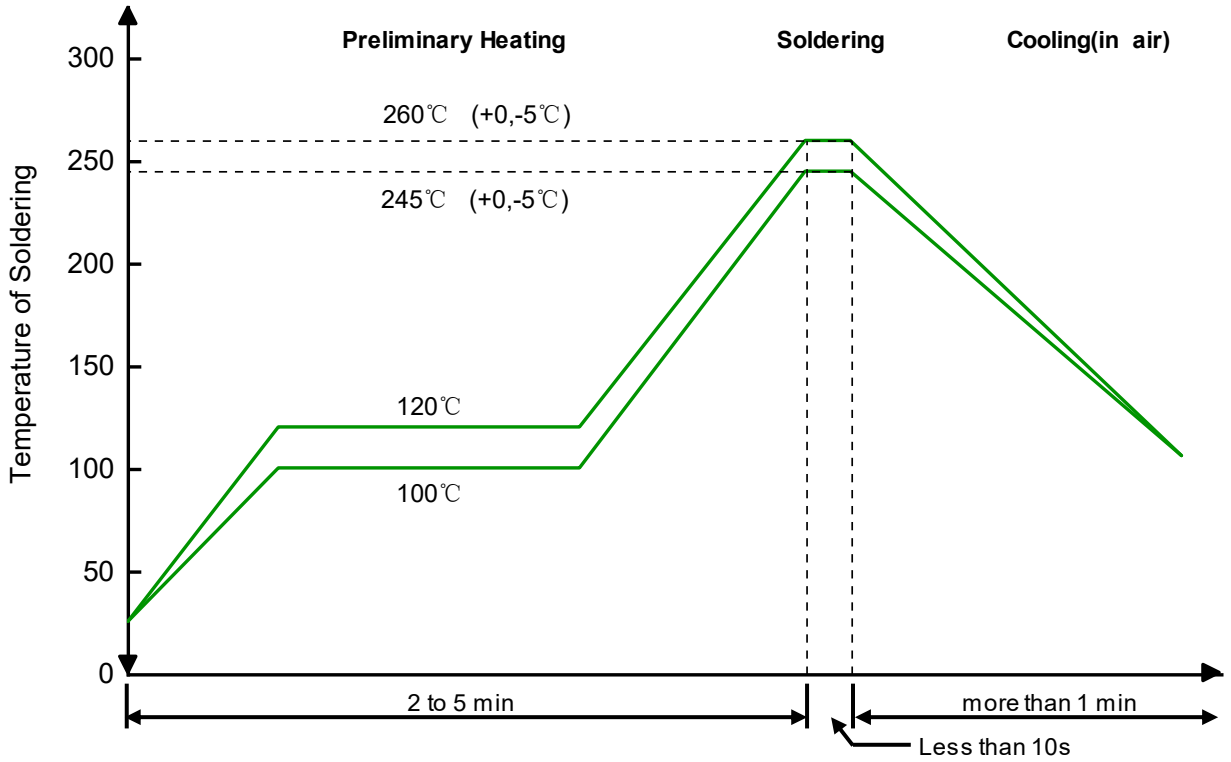


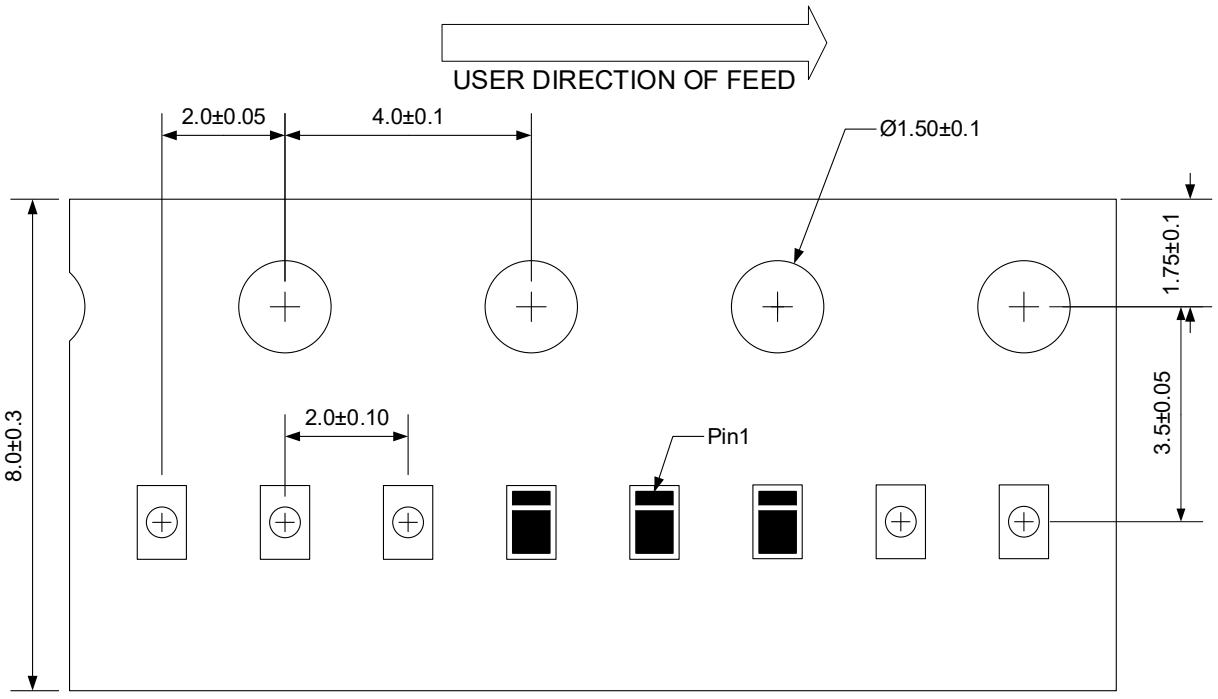
Fig 4.Typical Reverse Characteristics

Solder Reflow Recommendation



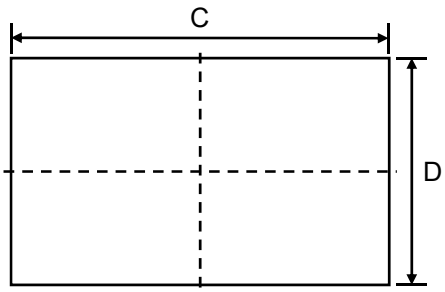
Remark: Pb free for 260℃; Pb for 245℃.

Load with information

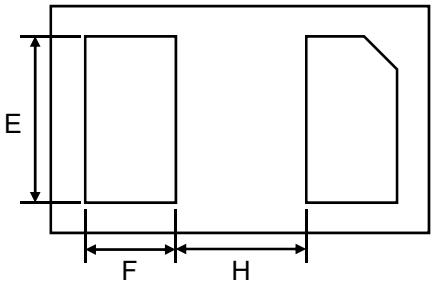


Unit:mm

Product dimension (DFN1006-2L)

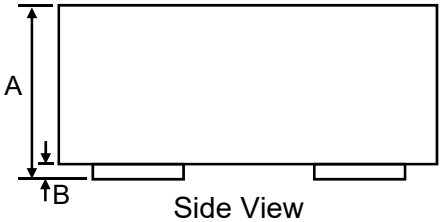


Top View

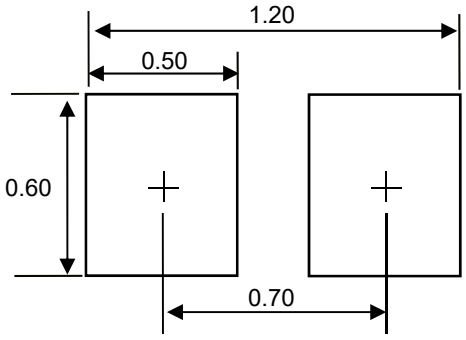


Bottom View

Dim	Millimeters		Inches	
	Min	Max	Min	Max
A	0.34	0.498	0.013	0.020
B	0.00	0.05	0.000	0.002
C	0.95	1.08	0.037	0.043
D	0.55	0.68	0.022	0.027
E	0.40	0.60	0.016	0.024
F	0.20	0.30	0.008	0.012
H	0.40 Typ.		0.015 Typ.	



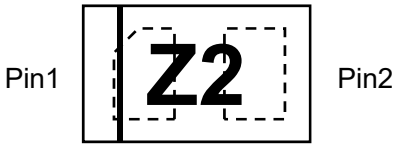
Side View



Unit:mm

Suggested PCB Layout

Marking information



Ordering information

Device	Package	Reel	Shipping
PZ2FD2VH	DFN1006-2L(Pb-Free)	7"	10000 / Tape & Reel

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