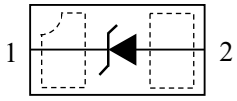
Prisemi®

PZ2FD5V6H

Zener Voltage Regulators

Description

The PZ2FD5V6H 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.



Top view

Feature

- Standard zener breakdown voltage range 5.6V
- DFN1006-2L package
- Steady state power rating of 250mW
- ESD rating of class 3(>16kV)per human body model
- RoHS compliant transient

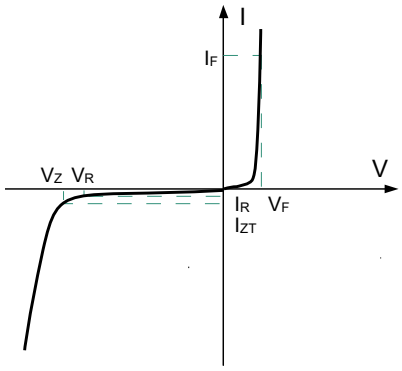
Applications

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

Mechanical Characteristics

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

Electronics Parameter



Electrical characteristics per line@(unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Zener Voltage	V_Z	I_{ZT} = 5mA	5.33	5.60	5.87	V
Maximum Zener Impedance	Z_{ZT}	I_{ZT} = 5mA	-	-	40	Ω
Maximum Zener Impedance	Z_{ZK}	I_{ZK} =0.5mA	-	-	500	Ω
Reverse Leakage Current	I_R	V_R =2V	-	-	1	μA
Forward Current	I_F				200	mA
Forward Voltage	V_F	I_F = 10mA	-	0.8	-	V
Capacitance	C	V_R=0V, f = 1MHz	-	90	-	pF

Absolute maximum rating@25℃

Rating	Symbol	Value	Units
Total Device Dissipation FR-5 Board	P_D	250	mW
Thermal Resistance, Junction-to-Ambient	$R_{\Theta JA}$	300	℃/W
Storage Temperature	T_J,T_{STG}	-65 to +150	℃

Typical Characteristics

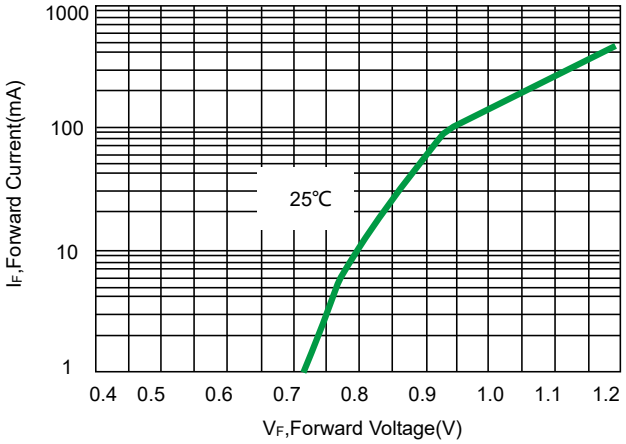


Fig 1.Typical Forward Voltage

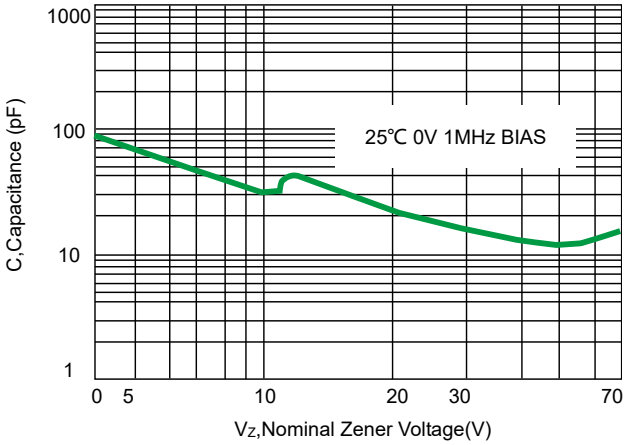


Fig 2. Typical Capacitance

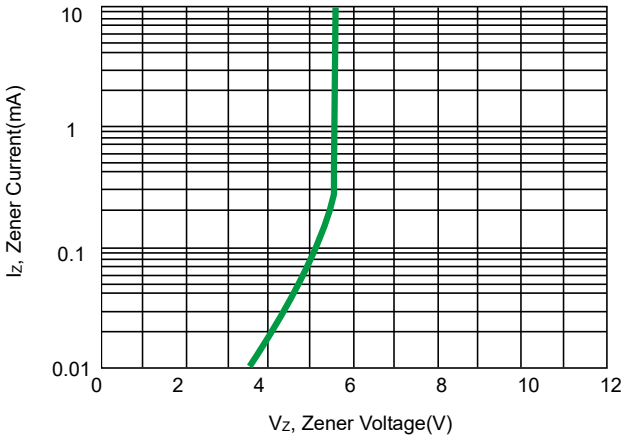


Fig 3.Zener Voltage versus Zener Current

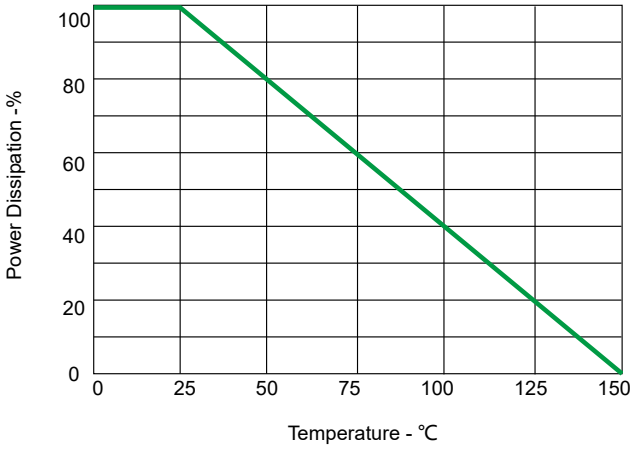
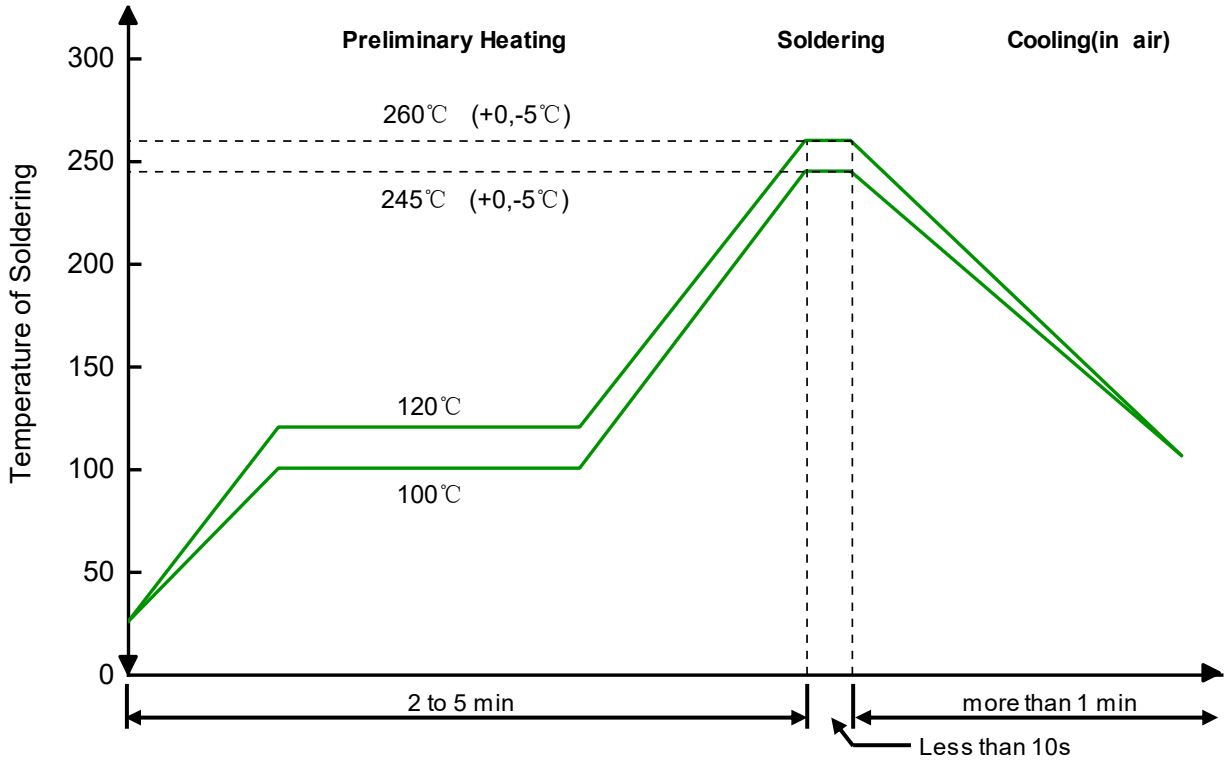


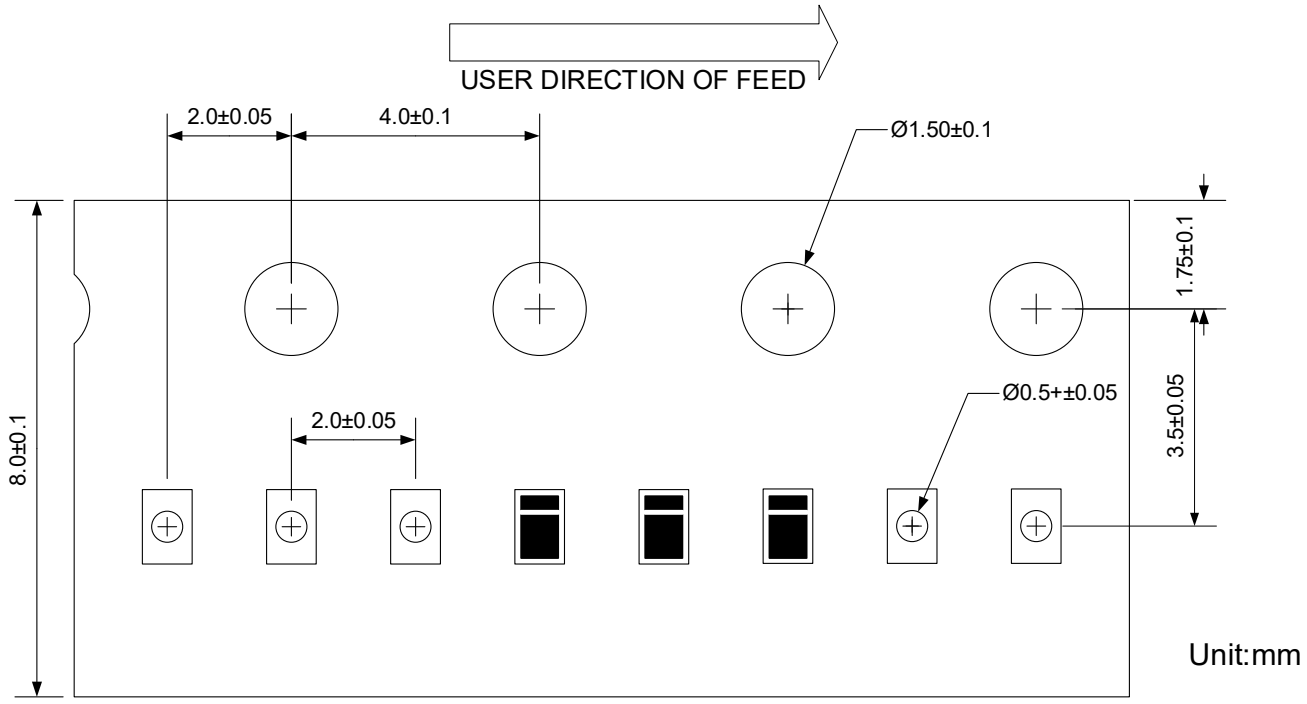
Fig 4.Steady State Power Detating

Solder Reflow Recommendation

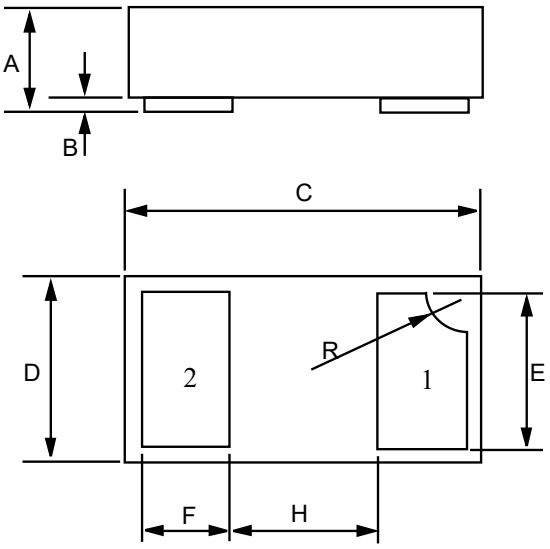


Remark: Pb free for 260℃; Pb for 245℃.

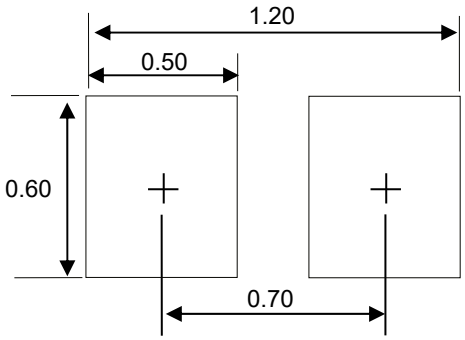
Load with information



Product dimension (DFN1006-2L)



Dim	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.016	0.020	0.34	0.55
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

Marking information

Ordering information

Package	Reel	Shipping
DFN1006-2L	7"	10000 / Tape & Reel

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