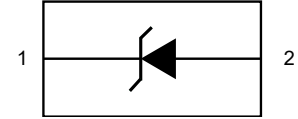


Description

The PZ2FD14VH 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 14V
- DFN1006-2L package
- Steady state power rating of 250mW
- ESD rating of class 3(>16kV)per human body model
- RoHS compliant transient

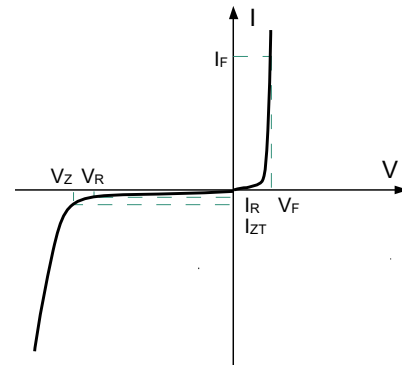
Applications

- 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 _Z	I _{ZT} = 5mA	13.35	14	14.75	V
Maximum Zener Impedance	Z _{ZT}	I _{ZT} = 5mA	-	12	30	Ω
Maximum Zener Impedance	Z _{ZK}	I _{ZK} = 1mA	-	20	110	Ω
Reverse Leakage Current	I _R	V _R = 10V	-	-	5	μA
Forward Voltage	V _F	I _F = 100mA	-	0.9	1.25	V
Max.Capacitance	C	V _R =4V, f = 1MHz	-	-	200	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

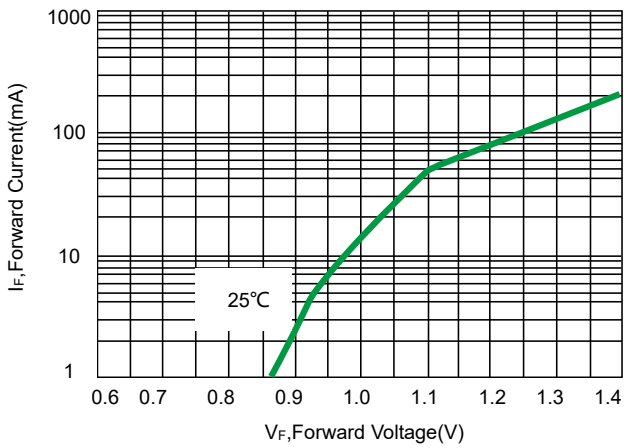


Fig 1. Typical Forward Voltage

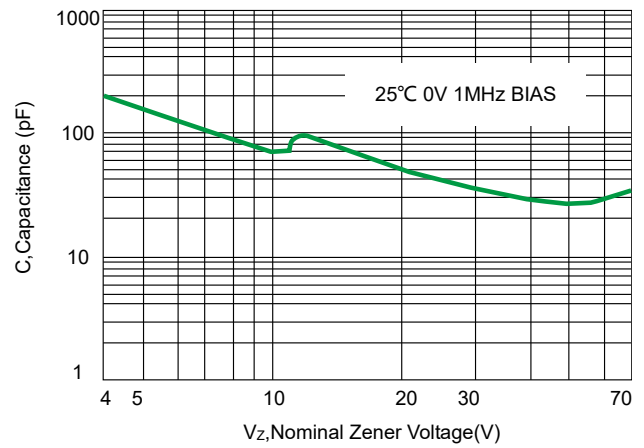


Fig 2. Typical Capacitance

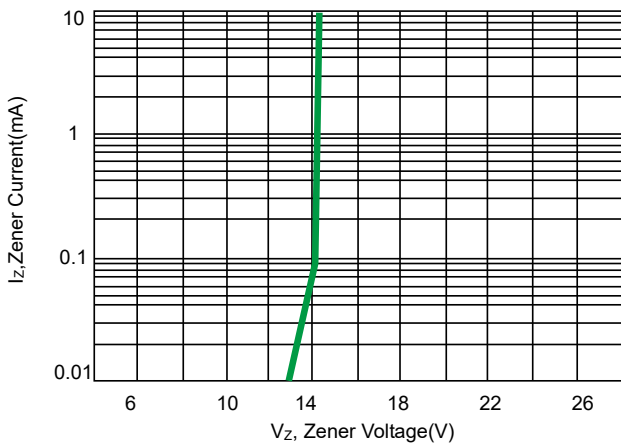


Fig 3. Zener Voltage versus Zener Current

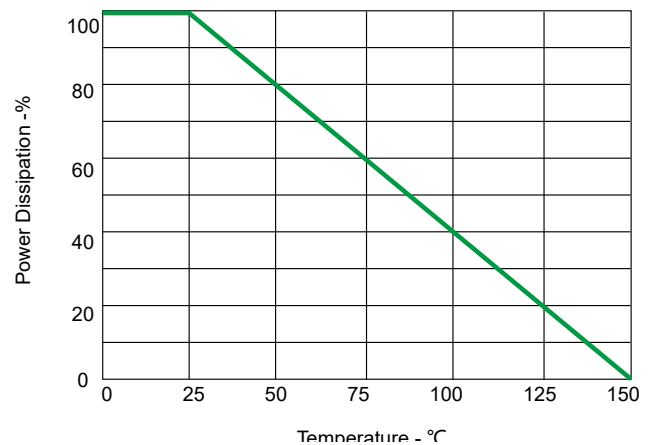
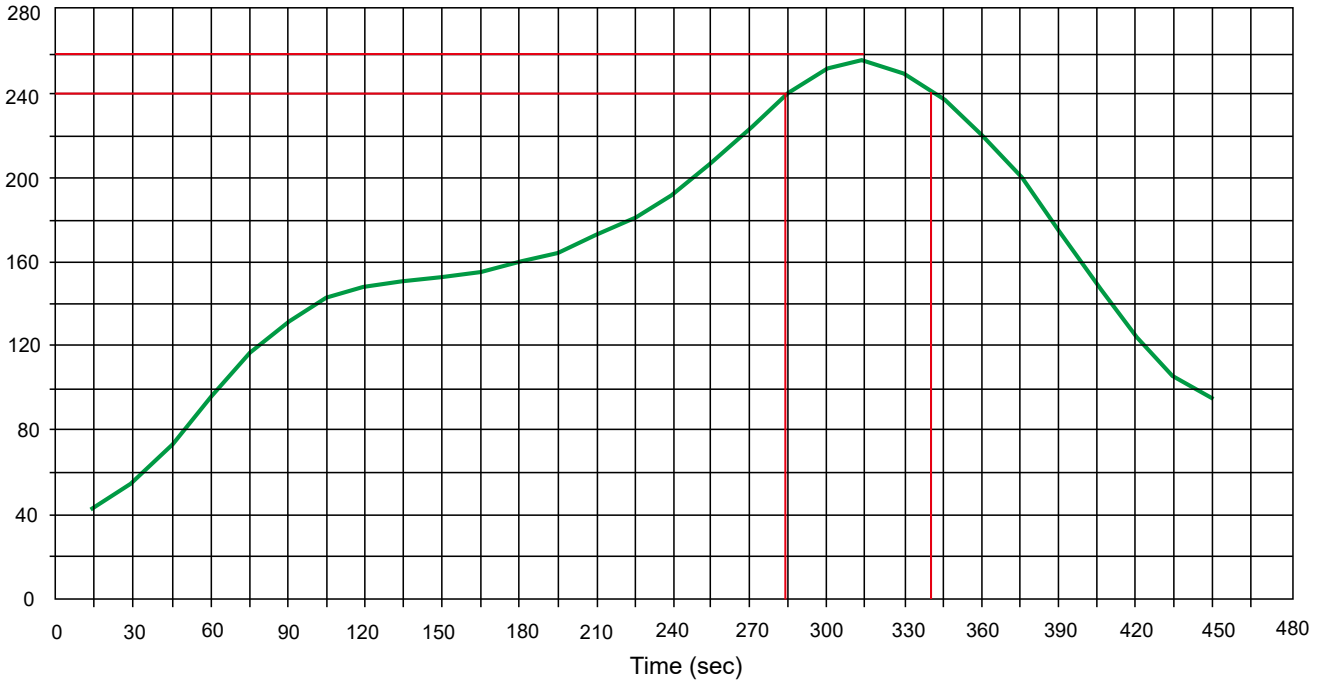


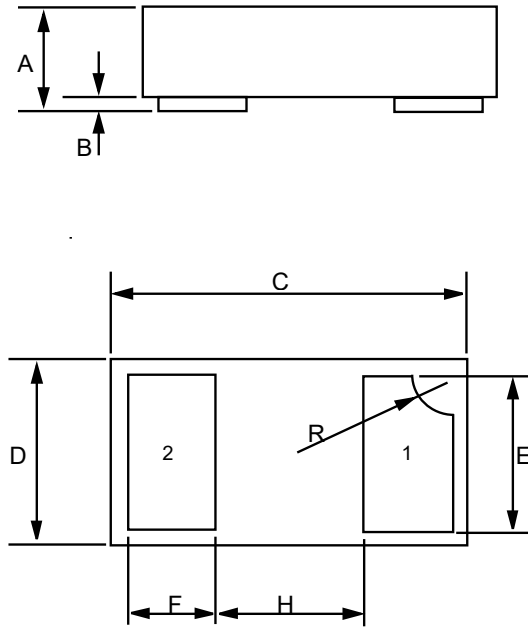
Fig 4. Steady State Power Detating

Solder Reflow Recommendation

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

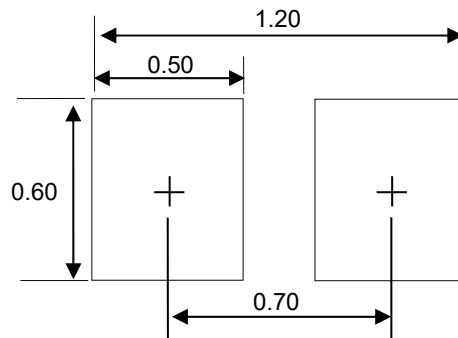


Product dimension (DFN1006-2L)



Bottom view

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	0.042	0.95	1.075
D	0.021	0.026	0.55	0.675
E	0.017	0.021	0.45	0.55
F	0.007	0.011	0.20	0.30
H	0.015Typ.		0.40Typ.	
R	0.001	0.005	0.05	0.15




Unit:mm

Ordering information

Device	Package	Shipping
PZ2FD14VH	DFN1006-2L (Pb-Free)	10000 / Tape & Reel


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