

PZ23T3V3H

Zener Voltage Regulators

Description

The PZ23T3V3H is packaged in a SOT-23 surface mount package that has a power dissipation of 500mW. 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 3.3V
- SOT-23 package
- Steady state power rating of 500mW
- ESD rating of class 3(>16kV)per human body model
- RoHS compliant transient

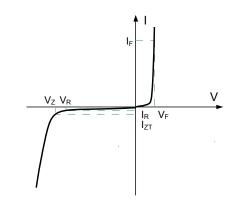
Mechanical Characteristics

- Lead finish:100% matte Sn(Tin)
- Mounting position: Any
- Qualified max reflow temperature:260°C
- Device meets MSL 1 requirements
- Pure tin plating: 7 ~ 17 um
- Pin flatness:≤3mil

Applications

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

Electronics Parameter



Electrical characteristics per line@(unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Zener Voltage	Vz	I _{ZT} = 5mA(2 to 1)		3.3		V
Maximum Zener Impedance	Z _{ZT}	I _{ZT} = 5mA	-	-	55	Ω
Maximum Zener Impedance	Z _{ZK}	I _{ZK} =0.5mA	-	-	500	Ω
Reverse Leakage Current	I _R	V _R =2.8V	-	-	5	μA
Max. Capacitance	С	V _R =0V, f = 1MHz	-	3.5	5	pF

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Absolute maximum rating@25℃

Rating	Symbol	Value	Units
Total Device Dissipation FR-5 Board	P _D	500	mW
Thermal Resistance, Juction-to-Ambient	R _{OJA}	435	°C/W
Storage Temperature	T _J ,T _{STG}	-65 to +150	°C

Typical Characteristics

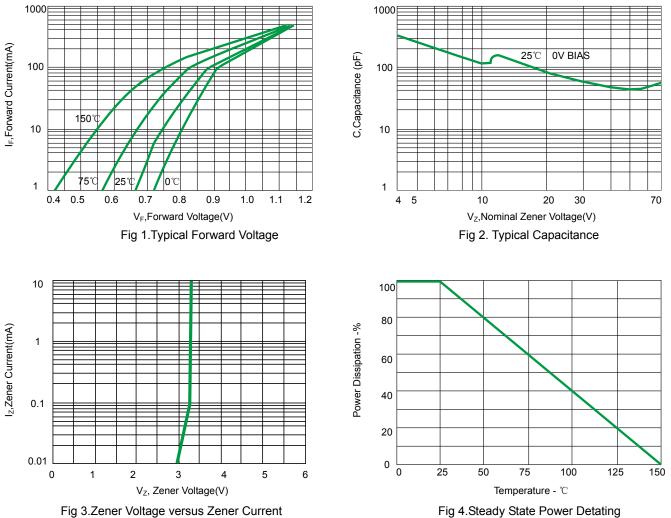
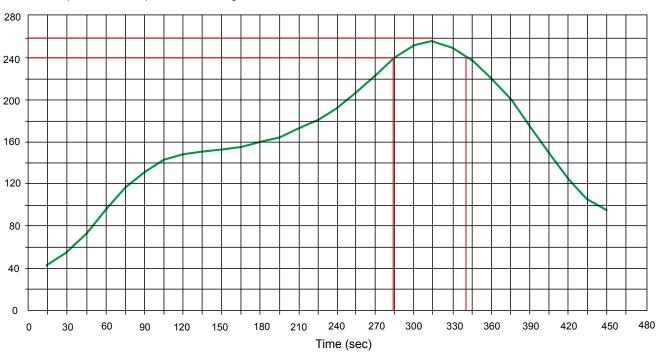


Fig 4.Steady State Power Detating

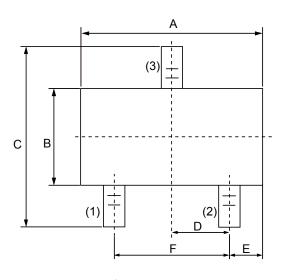
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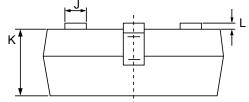
Solder Reflow Recommendation

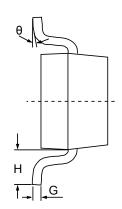


Peak Temp=257°C, Ramp Rate=0.802deg. °C/sec

Product dimension(SOT-23)





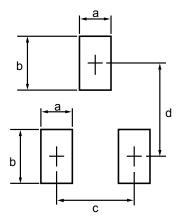


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PZ23T3V	3H
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Dim	Millimeters		Inches		
Dim	MIN	МАХ	MIN	МАХ	
А	2.80	3.00	0.1102	0.1197	
В	1.20	1.40	0.0472	0.0551	
С	2.10	2.50	0.0830	0.0984	
D	0.89	1.02	0.0350	0.0401	
E	0.45	0.60	0.0177	0.0236	
F	1.78	2.04	0.0701	0.0807	
G	0.085	0.177	0.0034	0.0070	
н	0.45	0.60	0.0180	0.0236	
J	0.37	0.50	0.0150	0.0200	
К	0.89	1.11	0.0350	0.0440	
L	0.013	0.100	0.0005	0.0040	
θ	0°	10°	0°	10°	



Dim	Millimeters		
Dim	MIN	MAX	
а		0.7	
b		1.2	
С		2.04	
d		2.2	

Ordering information

Device	Package	Shipping
PZ23T3V3H	SOT-23 (Pb-Free)	3000 / Tape & Reel

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