

PZ5D6V2H

Zener Voltage Regulator

Description

The PZ5D6V2H is packaged in a SOD-523 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 6.2V
- SOD-523 package
- Steady state power rating of 500mW
- RoHS compliant transient

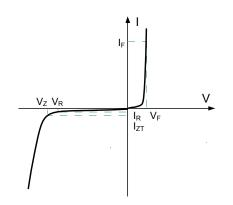
Mechanical Characteristics

- 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	5.9	6.2	6.5	V
Maximum Zener Impedance	Z _{ZT}	I _{ZT} = 5mA	-	-	10	Ω
Maximum Zener Impedance	Z _{ZK}	I _{ZK} =1mA	-	-	200	Ω
Reverse Leakage Current	I _R	V _R =4V	-	-	0.1	μA
Forward Voltage	V _F	I _F = 10mA	-	0.8	1.0	V
Capacitance	Cj	V _R =0V, f = 1MHz	-	110	130	pF

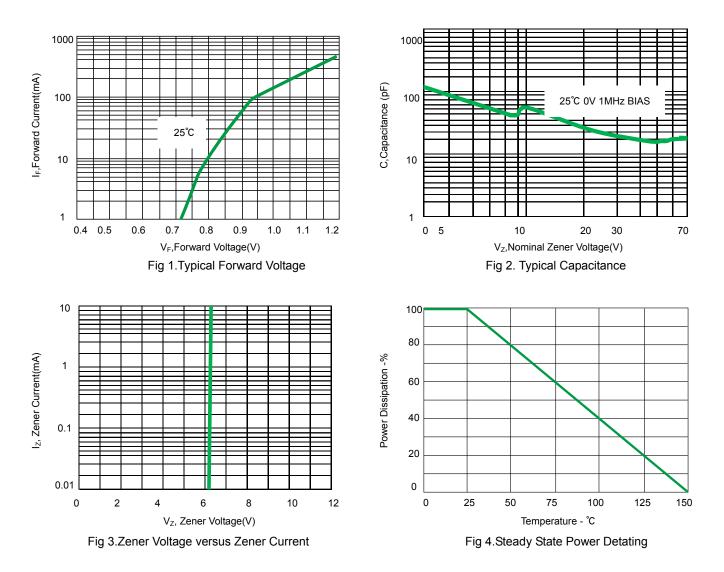


Zener Voltage Regulators

Absolute maximum rating@25°C

Rating	Symbol	Value	Units
Total Device Dissipation FR-5 Board	P _D	500	mW
Thermal Resistance, Juction-to-Ambient	R _{OJA}	635	°C/W
Storage Temperature	T _J ,T _{STG}	-65 to +150	°C

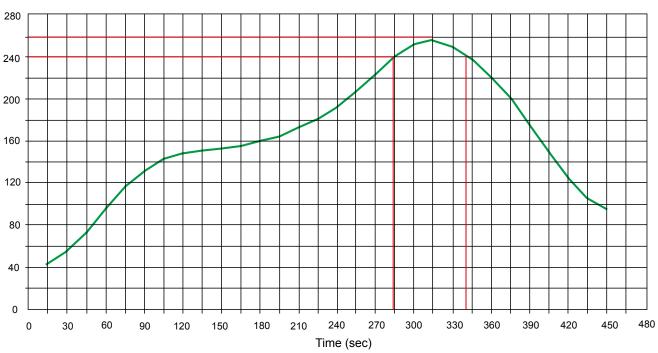
Typical Characteristics



PZ5D6V2H

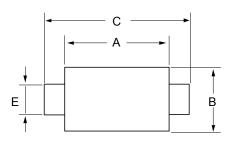
Zener Voltage Regulators

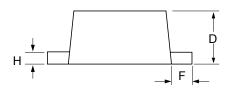
Solder Reflow Recommendation



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

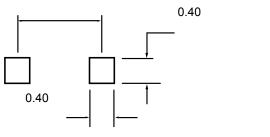
Product dimension (SOD-523)





Dim	Inc	hes	Millimeters		
nin	MIN	MAX	MIN	МАХ	
А	0.043	0.051	1.10	1.30	
В	0.028	0.035	0.70	0.90	
С	0.059	0.067	1.50	1.70	
D	0.020	0.028	0.50	0.70	
E	0.010	0.014	0.25	0.35	
F	0.006	0.010	0.15	0.25	
Н	0.0028	0.0079	0.07	0.20	

1.40



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Unit:mm

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Ordering information

Device	Package	Shipping	
PZ5D6V2H	SOD-523 (Pb-Free)	3000 / Tape & Reel	

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