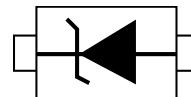


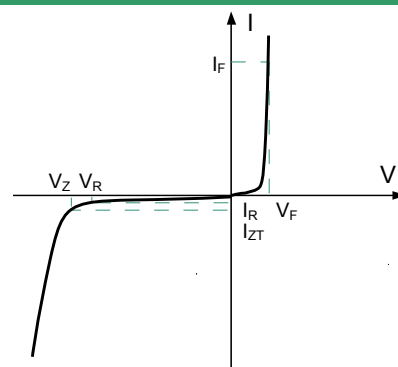
Description

The PZ5D4V2H 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 5.1V
- SOD523 package
- Steady State Power Rating of 500mW
- ESD Rating of Class 3(> 16kV)per Human Body Model
- RoHS Compliant Transient



Applications

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

Electrical characteristics per line@ (unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Zener Voltage	V_Z	$I_{ZT} = 5\text{mA}$		5.1		V
Maximum Zener Impedance	Z_{ZT}	$I_{ZT} = 5\text{mA}$	-	-	55	Ω
Maximum Zener Impedance	Z_{ZK}	$I_{ZK} = 0.5\text{mA}$	-	-	500	Ω
Reverse Leakage Current	I_R	$V_R = 2\text{V}$	-	-	2	μA
Forward Voltage	V_F	$I_F = 100\text{mA}$	-	-	1.25	V
Max.Capacitance	C	$V_R = 4\text{V}, f = 1\text{MHz}$	-	-	300	pF

Absolute maximum rating@25°C

Rating	Symbol	Value	Units
Total Device Dissipation FR-5 Board(Note 1)	P_D	500	mW
Thermal Resistance,Junction-to-Ambient	$R_{\theta JA}$	635	$^{\circ}\text{C}/\text{W}$
Storage Temperature	T_J, T_{STG}	-65 to +150	$^{\circ}\text{C}$

Typical Characteristics

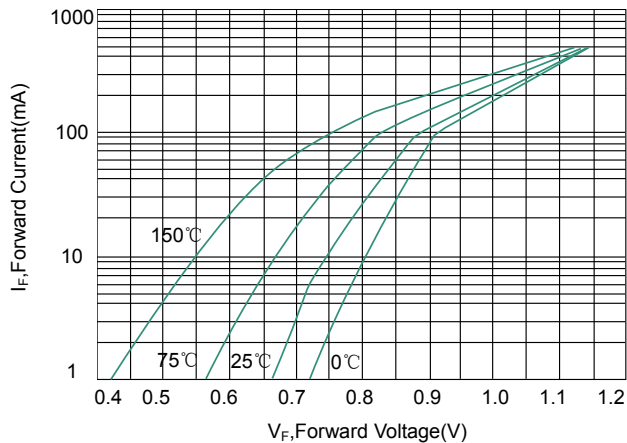


Fig 1. Typical Forward Voltage

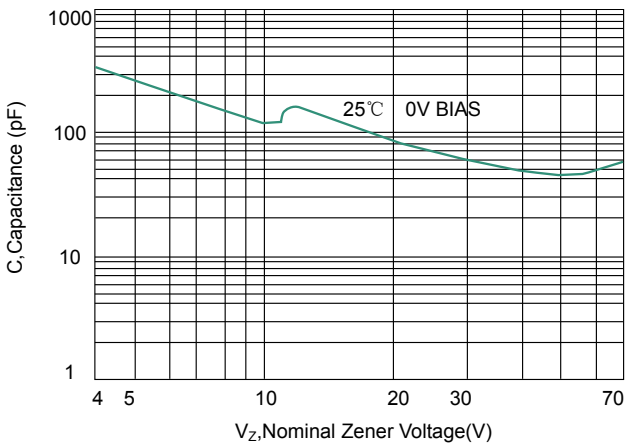


Fig 2. Typical Capacitance

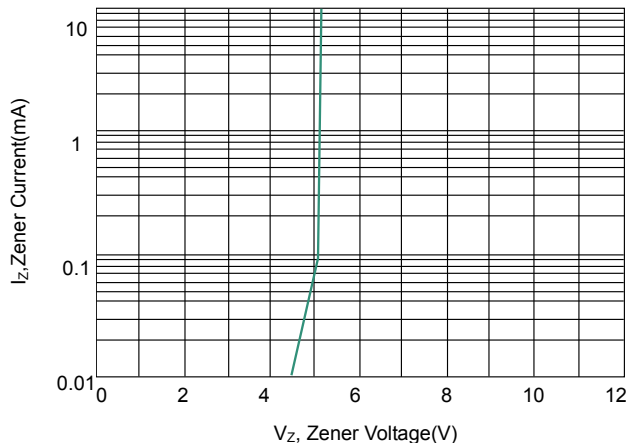


Fig 3. Zener Voltage versus Zener Current

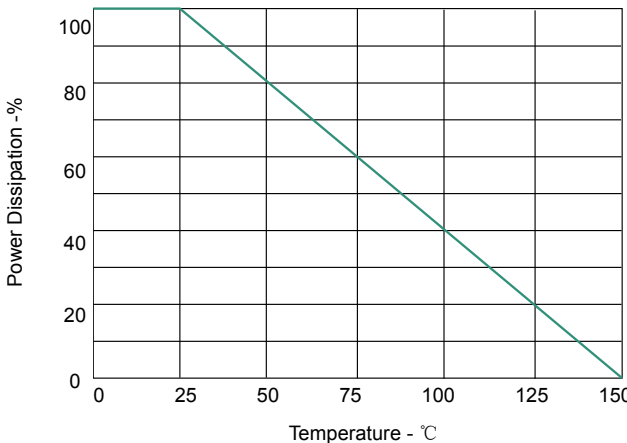


Fig 4. Steady State Power Detating

Product dimension

SOD-523 PACKAGE

The diagram shows the top and side views of an SOD-523 package. Dimensions are labeled: A (width), B (height), C (total width), D (height), E (height), F (width), and H (height).

Dim	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.043	0.051	1.10	1.30
B	0.028	0.035	0.70	0.90
C	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
H	0.0028	0.0079	0.07	0.20

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