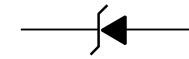


Zener Voltage Regulators

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

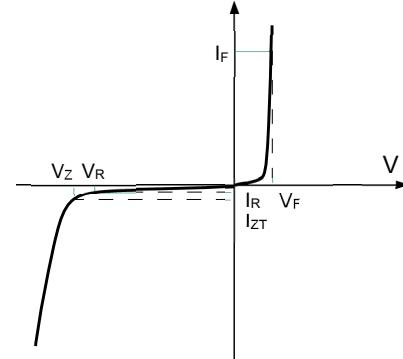
- Standard zener breakdown voltage range 5.1V
- SOD-523 package
- Steady state power rating of 500mW
- ESD rating of class 3(>16kV)per human body model
- RoHS compliant transient

Applications

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

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



Electrical characteristics per line@(unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Zener Voltage	V _Z	I _{ZT} = 5mA	4.8	5.1	5.5	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 =4.2V	-	-	20	μA
Forward Voltage	V _F	I _F = 100mA	-	-	1.25	V
Max.Capacitance	C	V _R =4V, f = 1MHz	-	-	300	pF

Absolute maximum rating@25°C

Rating	Symbol	Value	Units
Total Device Dissipation FR-5 Board	P _D	500	mW
Thermal Resistance,Junction-to-Ambient	R _{θJA}	340	°C/W
Storage Temperature	T _{J,T_{STG}}	-65 to +150	°C

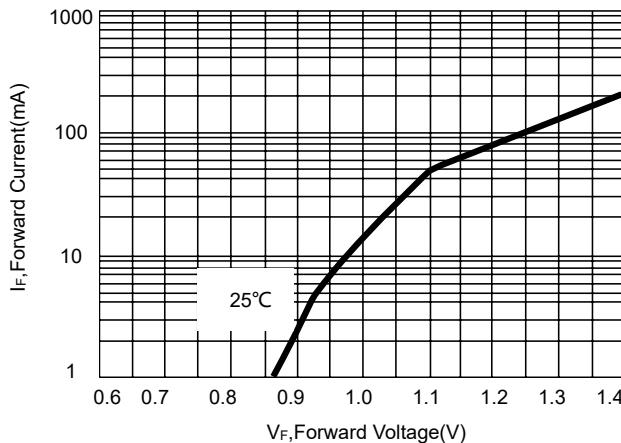
Typical Characteristics

Fig 1.Typical Forward Voltage

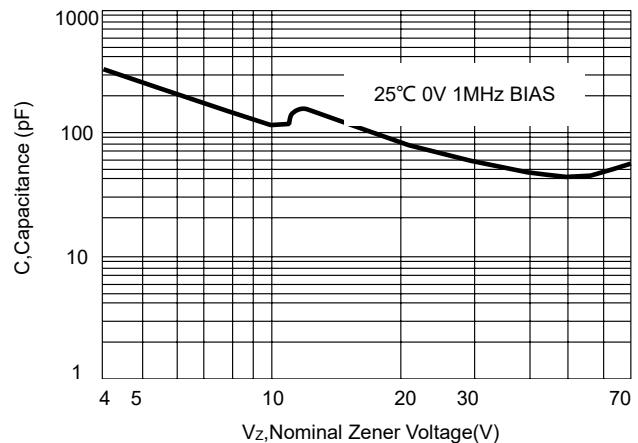


Fig 2. Typical Capacitance

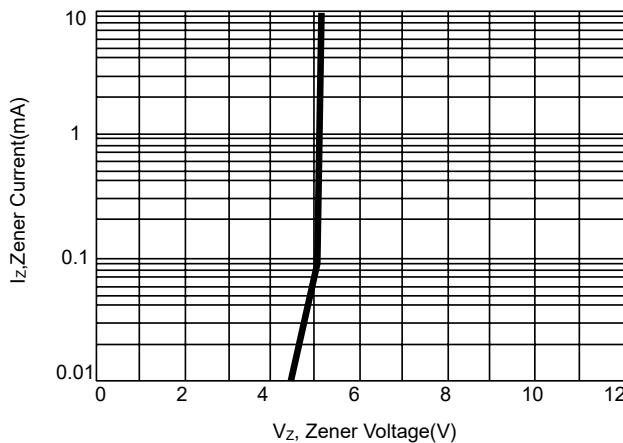


Fig 3.Zener Voltage versus Zener Current

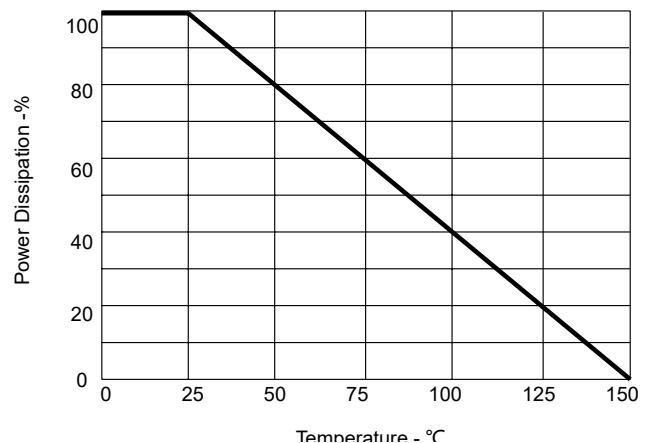
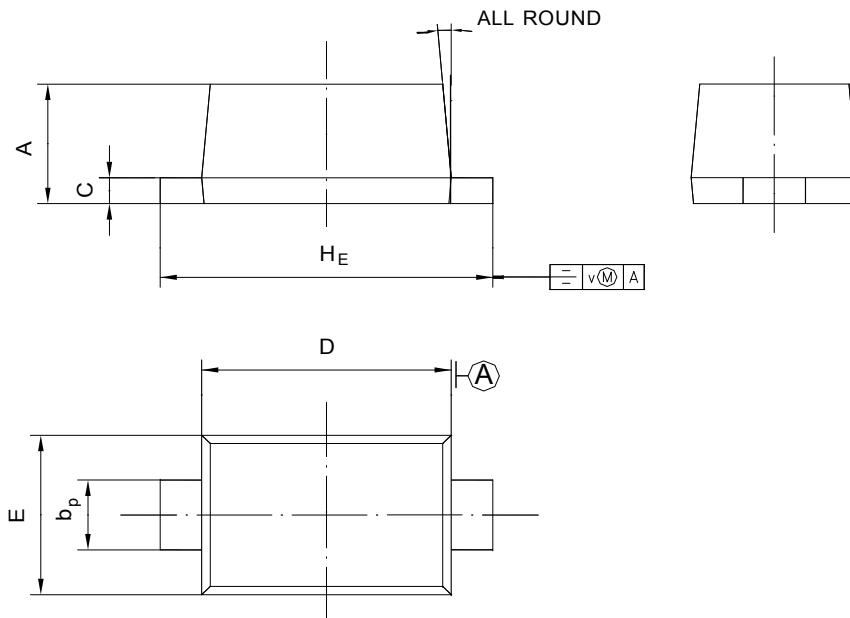


Fig 4.Steady State Power Detating

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523

UNIT	A	b _p	C	D	E	H _E	V	∠
mm	0.68	0.4	0.135	1.25	0.85	1.7	0.1	
	0.58	0.3	0.100	1.15	0.75	1.5		5°