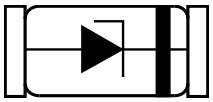
Prisemi®

PZMM15VH

Zener Voltage Regulators

Description

The PZMM15VH is packaged in glass MiniMELF package that has a power dissipation of 500mW. It is designed to provide voltage regulation protection and are especially attractive in situations where space is at a premium.



Feature

- Standard zener breakdown voltage range 15V
- MiniMELF package
- Steady state power rating of 500mW
- ESD rating of class 3(>16kV)per human body model
- RoHS compliant transient

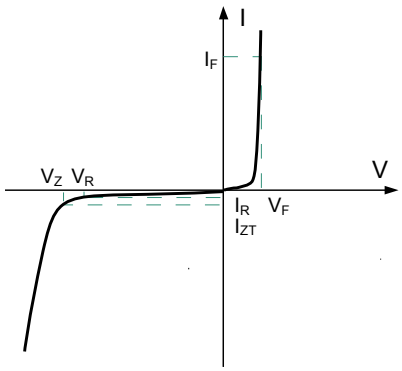
Applications

- 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℃
- Device meets MSL 1 requirements
- Pure tin plating: 7 ~ 17 um
- Pin flatness：≤3mil

Electronics Parameter



Electrical characteristics per line@(unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Zener Voltage	V_Z	I_{ZT} = 5mA		15		V
Maximum Zener Impedance	Z_{ZT}	I_{ZT} = 5mA	-	-	30	Ω
Maximum Zener Impedance	Z_{ZK}	I_{ZK} =0.5mA	-	-	110	Ω
Reverse Leakage Current	I_R	V_R =11V	-	-	2	μA
Forward Voltage	V_F	I_F = 100mA	-	-	1.00	V
Max. Capacitance	C	V_R=4V, f = 1MHz	-	-	300	pF

Absolute maximum rating@25℃

Rating	Symbol	Value	Units
Total Device Dissipation FR-5 Board	P_D	500	mW
Thermal Resistance, Junction-to-Ambient	$R_{\Theta JA}$	300	℃/W
Storage Temperature	T_J,T_{STG}	-65 to +150	℃

Typical Characteristics

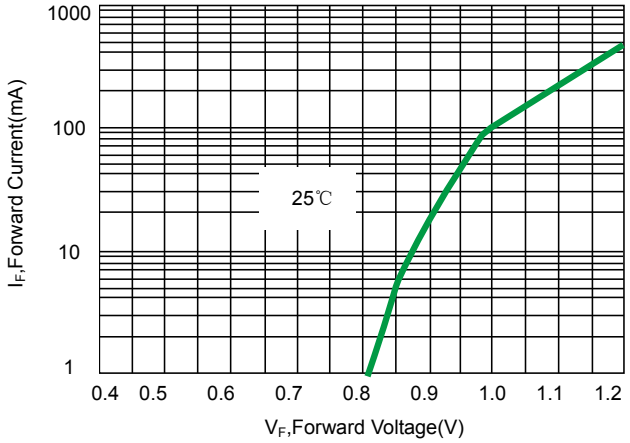


Fig 1.Typical Forward Voltage

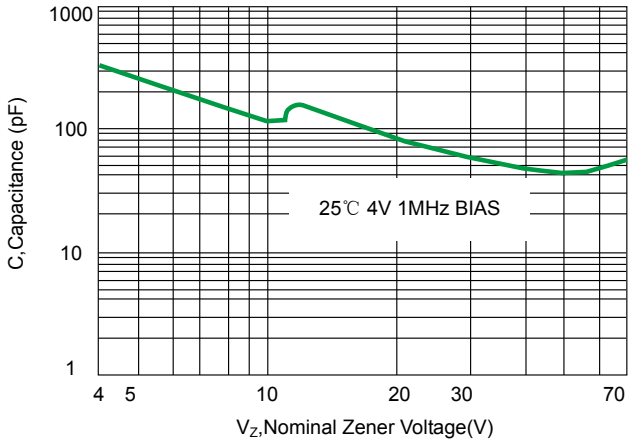


Fig 2. Typical Capacitance

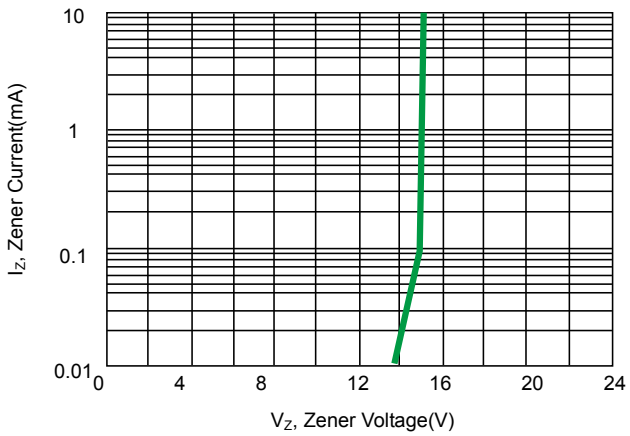


Fig 3.Zener Voltage versus Zener Current

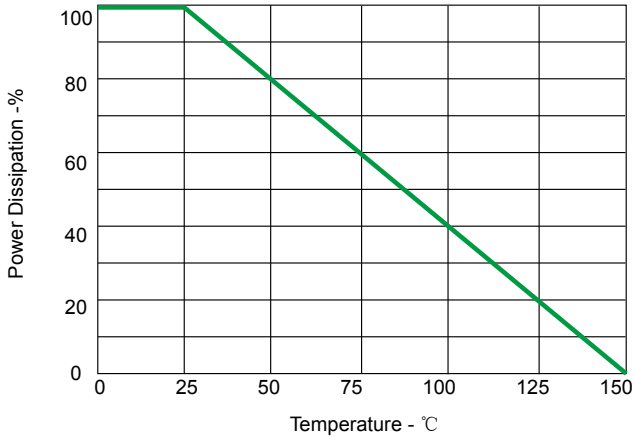
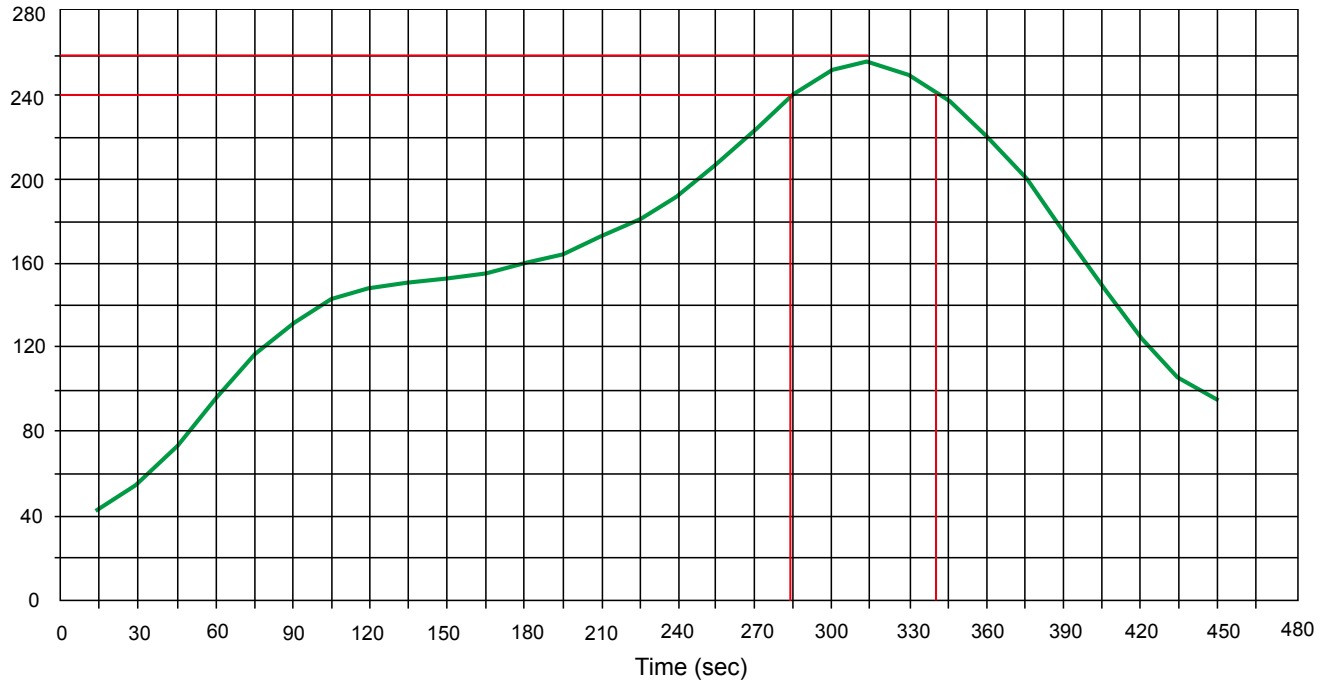


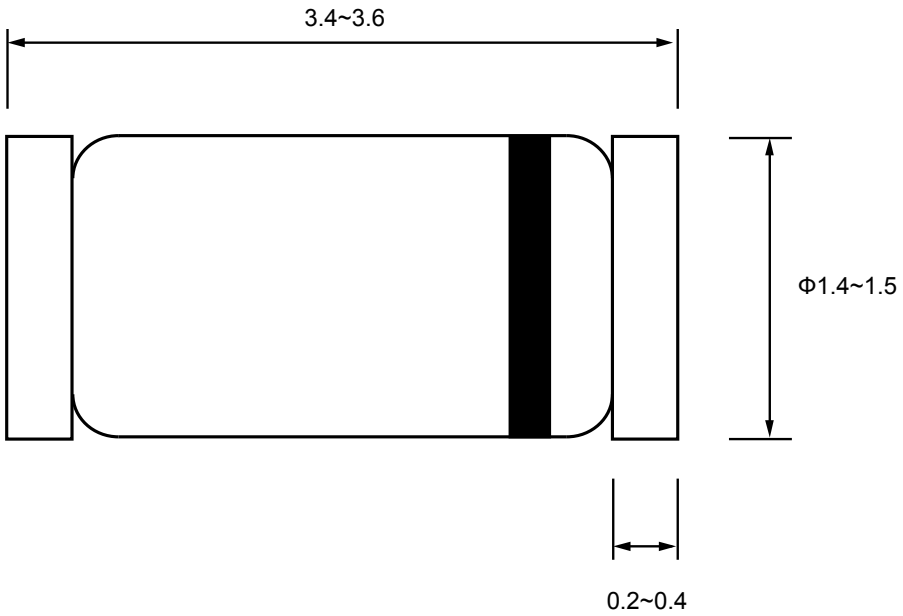
Fig 4.Steady State Power Detating

Solder Reflow Recommendation

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



Product dimension (MiniMELF)



Unit: mm

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