

Description

MM1W5V1 Zener Diodes are excellent voltage stabilization devices. It is designed specifically for Voltage stabilization, Voltage regulation, and so on.

Features

- For surface mounted applications
- Low Zener impedance
- Low regulation factor
- Epoxy resin package
- RoHS Compliant

Mechanical Characteristics

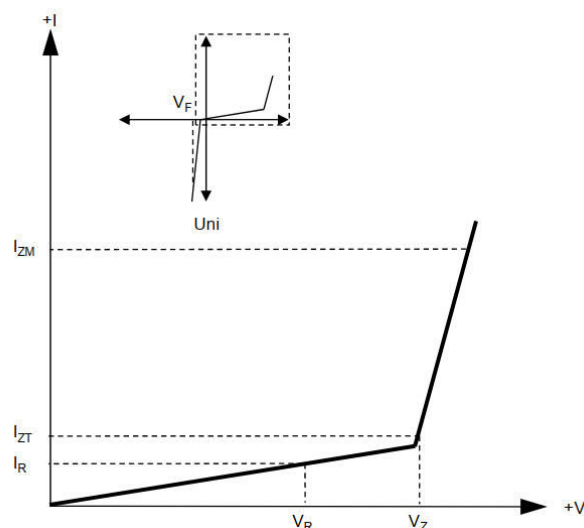
- Package: SOD-123FL plastic package.
- Lead Finish: Matte Tin
- Case Material: Epoxy Molding Compound.
- UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020

Applications

- Voltage stabilization
- Voltage regulation

Electrical Parameters

Parameter	Definition
P_D	Power Dissipation
I_{ZM}	Maximum Zener Current
V_F	Maximum Forward Voltage
V_Z	Zener Voltage
I_R	Maximum Reverse Current
V_R	Maximum Reverse Voltage



Absolute Maximum Ratings (TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Units	Remarks
Power Dissipation @T _L =75°C	P _D	1	W	
Maximum Forward Voltage @I _F =200mA	V _F	1.2	V	
Typical Thermal Resistance Junction to Lead	R _{θJL}	30	°C/W	
Typical Thermal Resistance Junction to Ambient	R _{θJA}	220	°C/W	
Operating Temperature Range	T _J	-55 to 150	°C	
Storage Temperature Range	T _{STG}	-55 to 150	°C	

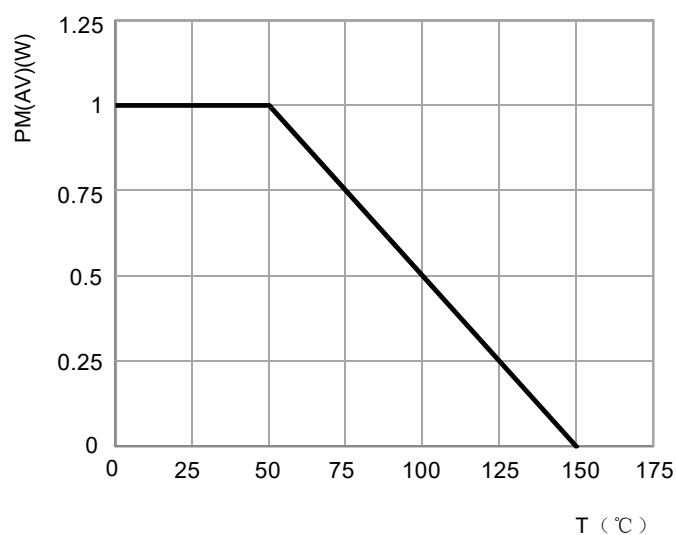
Electrical Characteristics (TA=25°C unless otherwise)

Part Number	Marking Code	Zener Voltage			Test Current	Maximum Zener Impedance			Maximum Reverse Current		Maximum Zener Current
		V _Z @ I _{ZT}			I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}		I _R @ V _R		I _{ZM}
		Nom (V)	Min (V)	Max (V)	mA	Ω	Ω	mA	μA	V	mA
MM1W5V1	FHK	5.1	4.8	5.4	49	7	550	1	10	1	178

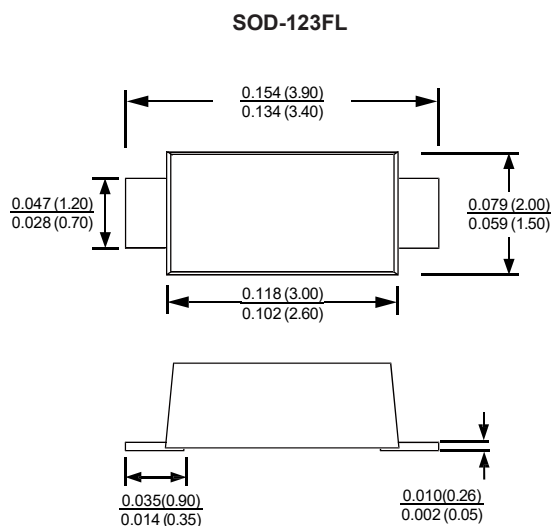
The accuracy of voltage regulator is 5%

Rating And Characteristic Curves (TA=25°C unless otherwise noted)

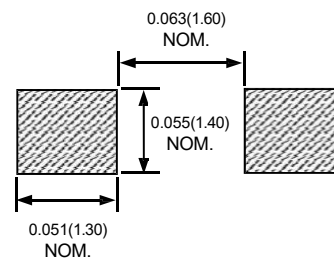
FIG1: Maximum Continuous Power Dissipation



Package Outline Dimensions in inches (millimeters)



Mounting Pad Layout



Part Marking System



FHK:Marking Code