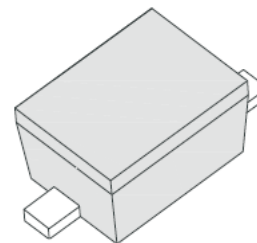


## 200mW Two Terminals SMD Zener Diodes

### Features

- 200mW Power Dissipation
- Zener Voltage 2.4v to 24v
- Low body height: 0.016" (0.40mm)
- ESD rating of class 3 (>16KV) per human body model
- Device meets MSL 1 requirements
- RoHS Compliance

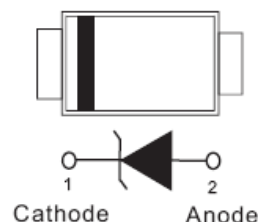


SOD-923



### Mechanical Data

<b>Case:</b>	SOD-923, molded plastic
<b>Terminals:</b>	Solderable per MIL-STD-750, Method 202
<b>Polarity:</b>	Color band denotes the cathode end
<b>Approx Weight:</b>	0.0004 grams



### Maximum Ratings ( $T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	Value	Unit	Conditions
<b>P<sub>D</sub></b>	Power Dissipation on FR-5 board	200	mW	TA=25°C
<b>V<sub>F</sub></b>	Max. Forward Voltage	0.9	V	IF=10mA
<b>T<sub>J</sub>, T<sub>STG</sub></b>	Operating Junction and Storage Temperature Range	-65 to +150	°C	

# 200mW Two Terminals SMD Zener Diodes

## TZD2.4WV - TZD24WV

### Electrical Characteristics ( $T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Part NO.	Marking Code	Nominal Zener Voltage @ $I_{ZT}$			Test Current	Max. Zener Impedance			Max. Reverse Leakage Current $I_R$ @ $V_R$	
		$V_Z(V)$				$I_{ZT}(mA)$	$Z_{ZT}$ @ $I_{ZT}$			
		Nom.	Min.	Max.	$\Omega$		$\Omega$	mA	$I_R (\mu A)$	$V_R(V)$
TZD2.4WV	J	2.4	2.28	2.52	5	100	1000	1	50	1.0
TZD2.7WV	E**	2.7	2.57	2.84	5	100	1000	1	20	1.0
TZD3.0WV	T**	3.0	2.85	3.15	5	100	1000	1	10	1.0
TZD3.3WV	Q	3.3	3.14	3.47	5	100	1000	1	10	1.0
TZD3.6WV	3**	3.6	3.42	3.78	5	100	1000	1	10	1.0
TZD3.9WV	V**	3.9	3.71	4.10	5	100	1000	1	5	1.0
TZD4.3WV	Y**	4.3	4.09	4.52	5	100	1000	1	5	1.0
TZD4.7WV	3	4.7	4.47	4.94	5	100	800	0.5	2	1.0
TZD5.1WV	4	5.1	4.85	5.36	5	80	500	0.5	2	1.5
TZD5.6WV	5	5.6	5.32	5.88	5	60	200	0.5	1	2.5
TZD6.2WV	6	6.2	5.89	6.51	5	60	100	0.5	1	3.0
TZD6.8WV	A*	6.8	6.46	7.14	5	40	60	0.5	0.5	3.5
TZD7.5WV	D*	7.5	7.13	7.88	5	30	60	0.5	0.5	4.0
TZD8.2WV	E*	8.2	7.79	8.61	5	30	60	0.5	0.5	5.0
TZD9.1WV	F*	9.1	8.65	9.56	5	30	60	0.5	0.5	6.0
TZD10WV	J*	10	9.50	10.50	5	30	60	0.5	0.1	7.0
TZD11WV	K*	11	10.45	11.55	5	30	60	0.5	0.1	8.0
TZD12WV	L*	12	11.40	12.60	5	30	80	0.5	0.1	9.0
TZD13WV	P*	13	12.35	13.65	5	37	80	0.5	0.1	10
TZD15WV	Q*	15	14.25	15.75	5	42	80	0.5	0.1	11
TZD16WV	R*	16	15.2	16.80	5	50	80	0.5	0.1	12
TZD18WV	T*	18	17.10	18.90	5	50	80	0.5	0.1	14
TZD20WV	V*	20	19.00	21.00	5	55	100	0.5	0.1	15.4
TZD22WV	Y*	22	20.9	23.10	5	55	100	0.5	0.1	16.8
TZD24WV	F	24	22.8	25.20	5	70	120	0.5	0.1	18.9

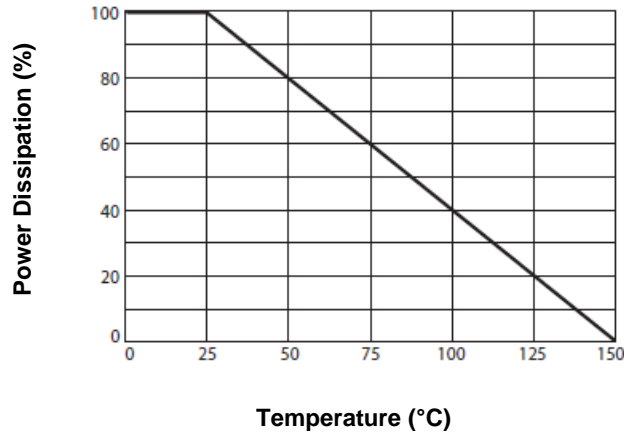
Note: 1. \*Rotated 90°

2. \*\* Rotated 270°

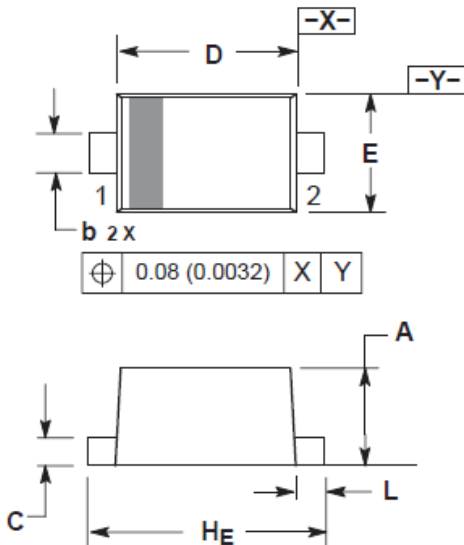
3. Zener voltage is measured with a pulse a test current  $I_Z$  at an ambient temperature of 25°C.

Typical Characteristics Curves

Fig.1- Power Derating Curve



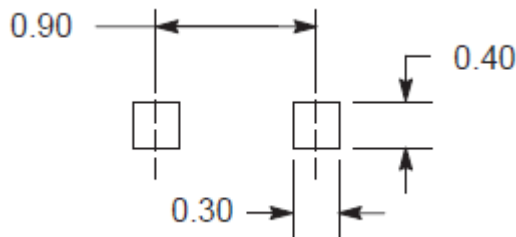
Dimensions in mm



MILLIMETERS			
DIM	MIN	NOM	MAX
A	0.34	0.37	0.40
b	0.15	0.20	0.25
c	0.07	0.12	0.17
D	0.75	0.80	0.85
E	0.55	0.60	0.65
H <sub>E</sub>	0.95	1.00	1.05
L	0.05	0.10	0.15

SOD-923

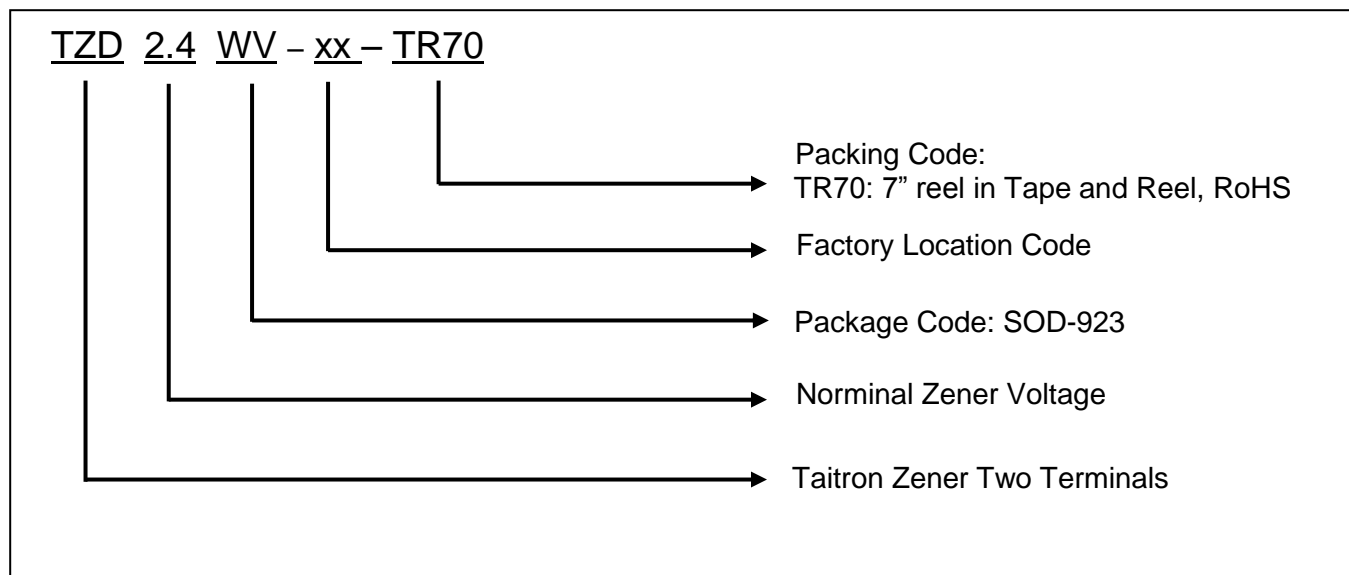
Mounting Pad Layout in mm



# 200mW Two Terminals SMD Zener Diodes

## TZD2.4WV - TZD24WV

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