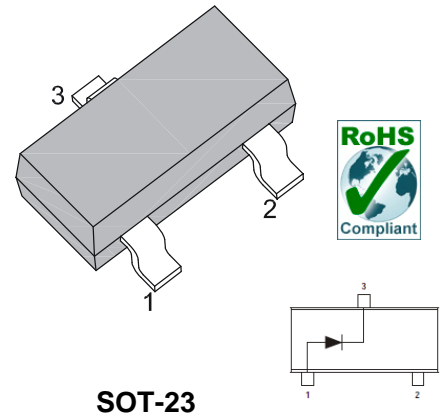


## 200mW Surface Mount Zener Diodes

### Features

- Constant Voltage Regulation Application
- 200mW Power Dissipation Rating
- Zener Voltages from 2.0~36V
- Reference Voltage Application
- Normal Voltage Tolerance about  $\pm 2.5\%$
- RoHS Compliant



### Mechanical Data

<b>Case:</b>	SOT-23, Molded Plastic
<b>Terminals:</b>	Solderable per MIL-STD-750, Method 2026
<b>Weight:</b>	0.008 grams

### Maximum Ratings *(T<sub>Ambient</sub>=25°C unless noted otherwise)*

Symbol	Description	Value	Unit
<b>P<sub>D</sub></b>	Power Dissipation	200	mW
<b>T<sub>J</sub>, T<sub>stg</sub></b>	Operating and Storage Temperature Range	-55 to +150	°C

# 200mW Surface Mount Zener Diodes

## TZT2.0W - TZT36W

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

Part NO.	Marking Code	Nominal Zener Voltage @ I <sub>ZT</sub>			Test Current I <sub>ZT</sub> (mA)	Max. Zener Impedance			Max. Reverse Leakage Current I <sub>R</sub> @ V <sub>R</sub>	
		V <sub>Z</sub> (V)				Z <sub>ZT</sub> @ I <sub>ZT</sub>	Z <sub>ZK</sub> @ I <sub>ZK</sub>	I <sub>ZK</sub> (mA)	I <sub>R</sub> (μA)	V <sub>R</sub> (V)
		Nom.	Min.	Max.						
TZT2.0W	2A	2.0	1.85	2.15	5.0	100	1000	0.5	120	1.0
TZT2.0XW	2AX		1.85	2.05						
TZT2.0ZW	2AZ		1.95	2.15						
TZT2.2W	2B	2.2	2.05	2.38	5.0	100	1000	0.5	120	1.0
TZT2.2XW	2BX		2.05	2.26						
TZT2.2ZW	2BZ		2.16	2.38						
TZT2.4W	2C	2.4	2.28	2.60	5.0	100	1000	0.5	120	1.0
TZT2.4XW	2CX		2.28	2.50						
TZT2.4ZW	2CZ		2.40	2.60						
TZT2.7W	2D	2.7	2.50	2.90	5.0	110	1000	0.5	120	1.0
TZT2.7XW	2DX		2.50	2.75						
TZT2.7ZW	2DZ		2.65	2.90						
TZT3.0W	30	3.0	2.80	3.20	5.0	120	1000	0.5	50	1.0
TZT3.0XW	30X		2.80	3.05						
TZT3.0ZW	30Z		2.95	3.20						
TZT3.3W	33	3.3	3.10	3.50	5.0	130	1000	0.5	20	1.0
TZT3.3XW	33X		3.10	3.35						
TZT3.3ZW	33Z		3.25	3.50						
TZT3.6W	36	3.6	3.40	3.80	5.0	130	1000	0.5	10	1.0
TZT3.6XW	36X		3.40	3.65						
TZT3.6ZW	36Z		3.55	3.80						
TZT3.9W	39	3.9	3.70	4.10	5.0	130	1000	0.5	10	1.0
TZT3.9XW	39X		3.70	3.97						
TZT3.9ZW	39Z		3.87	4.10						
TZT4.3W	4.3	4.3	4.00	4.50	5.0	130	1000	0.5	5	1.0
TZT4.3YW	4.3Y		4.13	4.35						
TZT4.7W	4.7	4.7	4.40	4.90	5.0	120	1000	0.5	5	1.0
TZT4.7YW	4.7Y		4.53	4.76						
TZT5.1W	5.1	5.1	4.80	5.40	5.0	70	1000	0.5	1	1.5
TZT5.1YW	5.1Y		4.97	5.24						
TZT5.6W	5.6	5.6	5.30	6.00	5.0	40	900	0.5	1	2.5
TZT5.6YW	5.6Y		5.43	5.81						

# 200mW Surface Mount Zener Diodes

## TZT2.0W - TZT36W

Part NO.	Marking Code	Nominal Zener Voltage @ I <sub>ZT</sub>			Test Current I <sub>ZT</sub> (mA)	Max. Zener Impedance			Max. Reverse Leakage Current I <sub>R</sub> @ V <sub>R</sub>	
		V <sub>Z</sub> (V)				Z <sub>ZT</sub> @ I <sub>ZT</sub>	Z <sub>ZK</sub> @ I <sub>ZK</sub>	I <sub>ZK</sub> (mA)	I <sub>R</sub> (μA)	V <sub>R</sub> (V)
		Nom.	Min.	Max.						
TZT6.2W	6.2	6.2	5.80	6.60	5.0	30	500	0.5	1	3.0
TZT6.2YW	6.2Y		6.00	6.39						
TZT6.8W	6.8	6.8	6.40	7.20	5.0	25	150	0.5	0.5	5.0
TZT6.8YW	6.8Y		6.60	7.02						
TZT7.5W	7.5	7.5	7.00	7.90	5.0	23	120	0.5	0.5	6.0
TZT7.5YW	7.5Y		7.23	7.66						
TZT8.2W	8.2	8.2	7.70	8.70	5.0	20	120	0.5	0.5	6.5
TZT8.2YW	8.2Y		7.96	8.43						
TZT9.1W	9.1	9.1	8.50	9.60	5.0	18	120	0.5	0.5	7.0
TZT9.1YW	9.1Y		8.80	9.30						
TZT10W	10	10	9.40	10.60	5.0	15	120	0.5	0.5	8.0
TZT10YW	10Y		9.73	10.26						
TZT11W	11	11	10.40	11.60	5.0	15	120	0.5	0.5	8.5
TZT11YW	11Y		10.73	11.26						
TZT12W	12	12	11.40	12.60	5.0	15	110	0.5	0.5	9.0
TZT12YW	12Y		11.73	12.26						
TZT13W	13	13	12.40	14.10	5.0	15	110	0.5	0.5	10
TZT13YW	13Y		12.88	13.57						
TZT15W	15	15	13.80	15.60	5.0	15	110	0.5	0.5	11
TZT15YW	15Y		14.33	15.11						
TZT16W	16	16	15.30	17.10	5.0	18	150	0.5	0.5	12
TZT16YW	16Y		15.80	16.60						
TZT18W	18	18	16.80	19.10	5.0	20	150	0.5	0.5	14
TZT18YW	18Y		17.46	18.43						
TZT20W	20	20	18.80	21.20	5.0	25	200	0.5	0.5	15
TZT20YW	20Y		19.48	20.46						
TZT22W	22	22	20.80	23.30	5.0	30	200	0.5	0.5	17
TZT22YW	22Y		21.48	22.56						
TZT24W	24	24	22.80	25.60	5.0	40	200	0.5	0.5	19
TZT24YW	24Y		23.61	24.92						
TZT27W	27A	27	26.19	27.53	2.0	150	150	0.5	0.1	21
TZT30W	30A	30	29.19	30.69	2.0	200	200	0.5	0.1	23
TZT33W	33A	33	32.15	33.79	2.0	250	250	0.5	0.1	25
TZT36W	36A	36	35.07	36.87	2.0	300	300	0.5	0.1	27

# 200mW Surface Mount Zener Diodes

## TZT2.0W - TZT36W

### Characteristics Curves

Fig.1 PD - TA

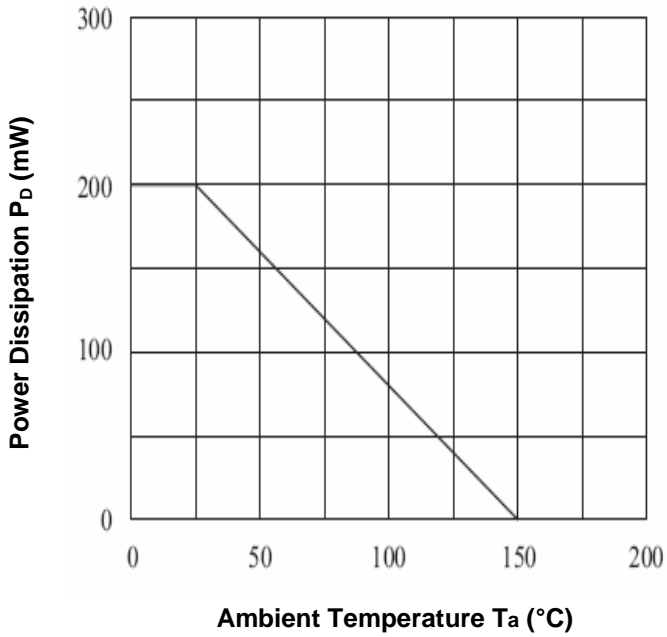
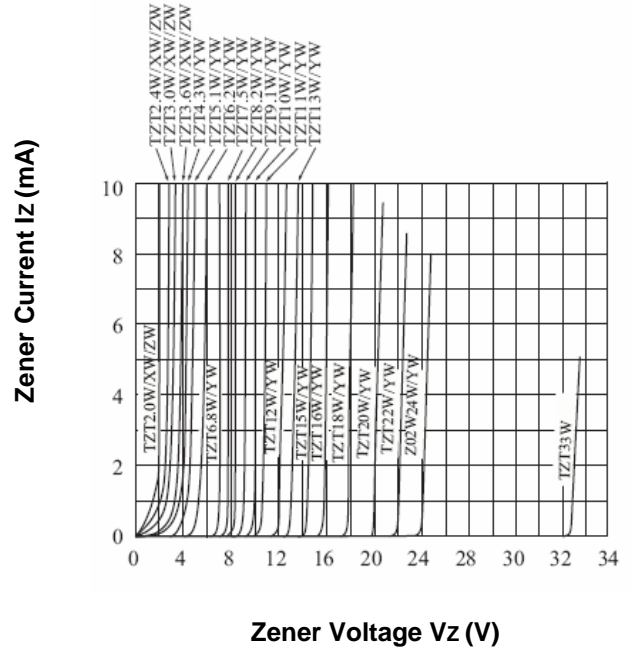
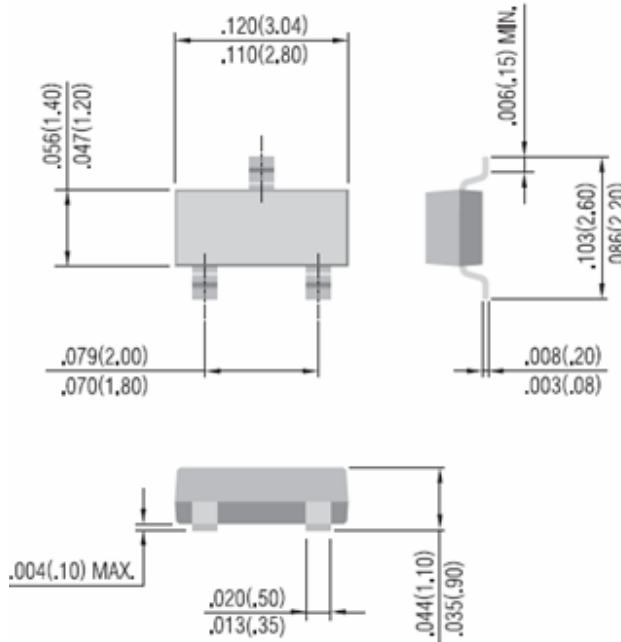


Fig.2 Iz - Vz



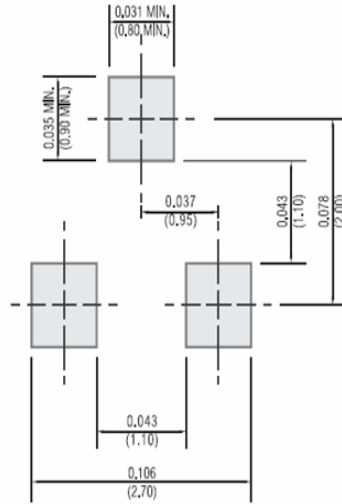
### Dimensions in inch (mm)



# 200mW Surface Mount Zener Diodes

## TZT2.0W - TZT36W

### Mounting Pad Layout



**SOT-23**

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