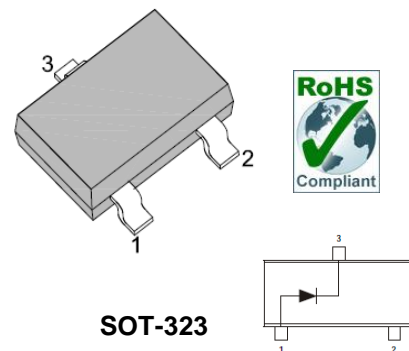


## 200mW Surface Mount Zener Diodes

### Features

- Planar Die construction
- 200mW Power Dissipation
- Standard Zener Voltage Tolerance is  $\pm 5\%$
- Ideally Suited for Automated Assembly Processes
- RoHS compliant



### Mechanical Data

<b>Case:</b>	SOT-323, Molded Plastic
<b>Terminals:</b>	Solderable per MIL-STD-750, Method 2026
<b>Weight:</b>	0.005 grams

### Maximum Ratings & Electrical Characteristics

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

Symbol	Description	Value	Unit	Conditions
PD	Power Dissipation	200	mW	Mounted on 5.0mm <sup>2</sup> (0.13mm thickness) land areas
TJ	Max. Junction Temperature	150	° C	
TSTG	Storage Temperature Range	-55 to +150	° C	

# 200mW Surface Mount Zener Diodes

## TZTC2V4WS-TZTC75WS

P/N	Marking Code	Normal Zener Voltage				Max. Zener impedance			Max. reverse leakage current	
		VZ @ IZT				ZZT @ IZT	Zzk @ Izk		ID @ VR	
		Nom. (V)	Min. (V)	Max. (V)	IZT (mA)	Ω	Ω	mA	μA	VR (V)
TZTC2V4WS	W1	2.4	2.28	2.52	5.0	100	600	1.00	50	1.0
TZTC2V7WS	W2	2.7	2.57	2.84	5.0	100	600	1.00	20	1.0
TZTC3V0WS	W3	3.0	2.85	3.15	5.0	95	600	1.00	10	1.0
TZTC3V3WS	W4	3.3	3.14	3.47	5.0	95	600	1.00	5	1.0
TZTC3V6WS	W5	3.6	3.42	3.78	5.0	90	600	1.00	5	1.0
TZTC3V9WS	W6	3.9	3.71	4.10	5.0	90	600	1.00	3	1.0
TZTC4V3WS	W7	4.3	4.09	4.52	5.0	90	600	1.00	3	1.0
TZTC4V7WS	W8	4.7	4.47	4.94	5.0	80	500	1.00	3	2.0
TZTC5V1WS	W9	5.1	4.85	5.36	5.0	60	480	1.00	2	2.0
TZTC5V6WS	WA	5.6	5.32	5.88	5.0	40	400	1.00	1	2.0
TZTC6V2WS	WB	6.2	5.89	6.51	5.0	10	150	1.00	3	4.0
TZTC6V8WS	WC	6.8	6.46	7.14	5.0	15	80	1.00	2	4.0
TZTC7V5WS	WD	7.5	7.13	7.88	5.0	15	80	1.00	1	5.0
TZTC8V2WS	WF	8.2	7.79	8.61	5.0	15	80	1.00	0.7	5.0
TZTC8V7WS	87C	8.7	8.27	9.14	5.0	15	100	1.00	0.7	5.0
TZTC9V1WS	WF	9.1	8.65	9.56	5.0	15	100	1.00	0.5	6.0
TZTC10WS	WG	10	9.50	10.50	5.0	20	150	1.00	0.2	7.0
TZTC11WS	WH	11	10.45	11.55	5.0	20	150	1.00	0.1	8.0
TZTC12WS	WI	12	11.40	12.60	5.0	25	150	1.00	0.1	8.0
TZTC13WS	WK	13	12.35	13.65	5.0	30	170	1.00	0.1	8.0
TZTC14WS	WJ	14	13.30	14.70	5.0	30	170	1.00	0.1	10.0
TZTC15WS	WL	15	14.25	15.75	5.0	30	200	1.00	0.1	10.5
TZTC16WS	WM	16	15.20	16.80	5.0	40	200	1.00	0.1	11.2
TZTC17WS	17C	17	16.15	17.85	5.0	40	200	1.00	0.1	12.2
TZTC18WS	WN	18	17.10	18.90	5.0	45	225	1.00	0.1	12.6
TZTC20WS	WO	20	19.00	21.00	5.0	55	225	1.00	0.1	14.0
TZTC22WS	WP	22	20.90	23.10	5.0	55	250	1.00	0.1	15.4
TZTC24WS	WR	24	22.80	25.20	5.0	70	250	1.00	0.1	16.8
TZTC27WS	WS	27	25.65	28.35	5.0	80	300	1.00	0.1	18.9
TZTC28WS	28C	28	26.60	29.40	5.0	80	300	1.00	0.1	20.5
TZTC30WS	WT	30	28.50	31.50	5.0	80	300	1.00	0.1	21.0
TZTC33WS	WU	33	31.35	34.65	5.0	80	325	1.00	0.1	23.1
TZTC36WS	WW	36	34.20	37.80	5.0	90	350	1.00	0.1	25.2
TZTC39WS	WX	39	37.05	40.95	5.0	130	350	1.00	0.1	27.3
TZTC43WS	WY	43	40.85	45.15	5.0	150	375	1.00	0.1	30.1
TZTC47WS	WZ	47	44.65	49.35	5.0	170	375	1.00	0.1	32.9

# 200mW Surface Mount Zener Diodes

## TZTC2V4WS-TZTC75WS

P/N	Marking Code	Normal Zener Voltage				Max. Zener impedance			Max. reverse leakage current	
		VZ @ IZT				ZZT @ IZT	Zzk @ Izk		ID @ VR	
		Nom. (V)	Min. (V)	Max. (V)	IZT (mA)	$\Omega$	$\Omega$	mA	$\mu$ A	VR (V)
TZTC51WS	XA	51	48.65	53.55	5.0	100	400	1.00	0.1	38.0
TZTC56WS	X2	56	53.20	58.80	2.5	135	1000	1.00	0.1	42.0
TZTC62WS	X3	62	58.90	65.10	2.5	150	1000	1.00	0.1	46.0
TZTC68WS	X4	68	64.60	71.40	2.5	200	1000	1.00	0.1	51.0
TZTC75WS	X5	75	71.25	78.75	2.5	250	1000	1.00	0.1	56.0

### Characteristics Curves

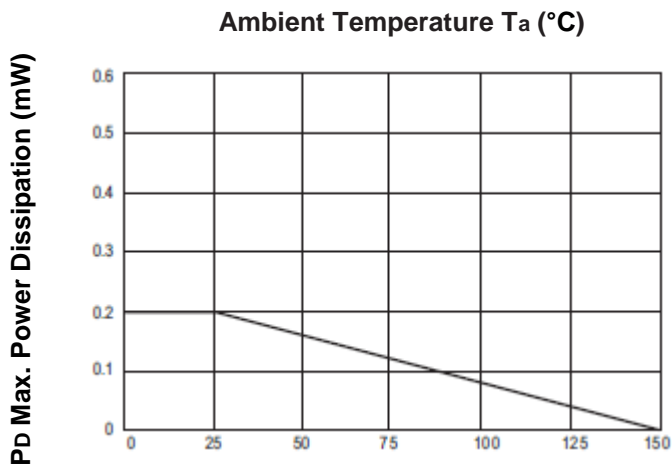


Fig.1 Power Derating Curve

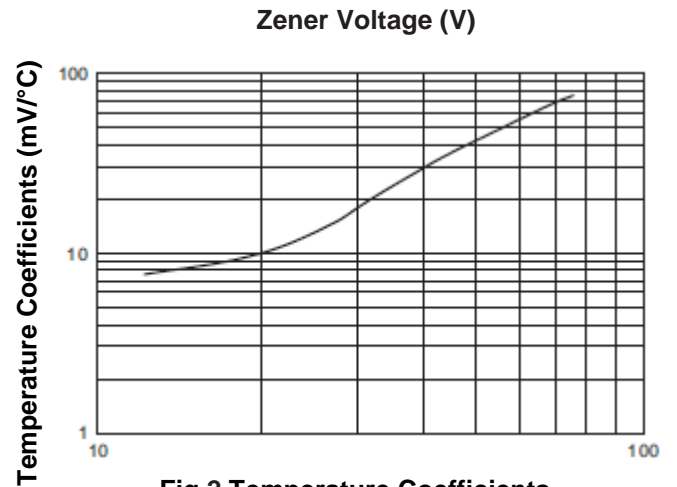


Fig.2 Temperature Coefficients

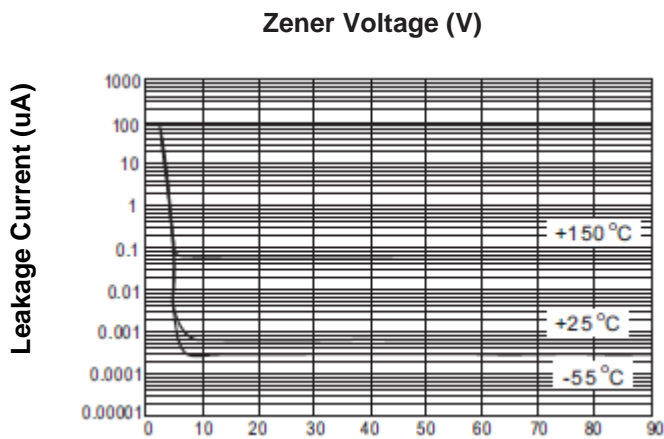


Fig.3 Typical Leakage Current

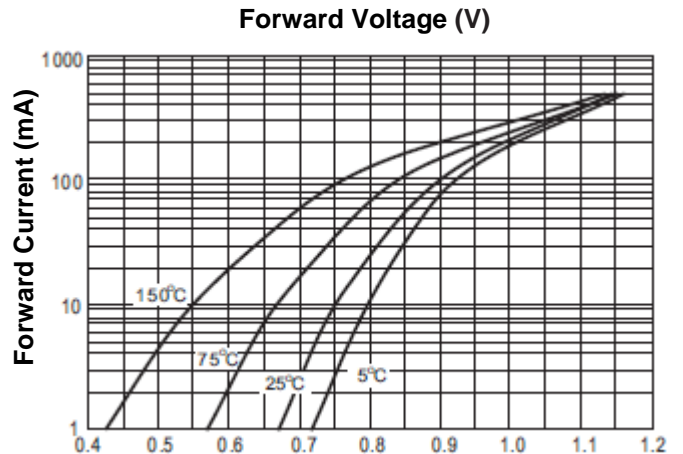


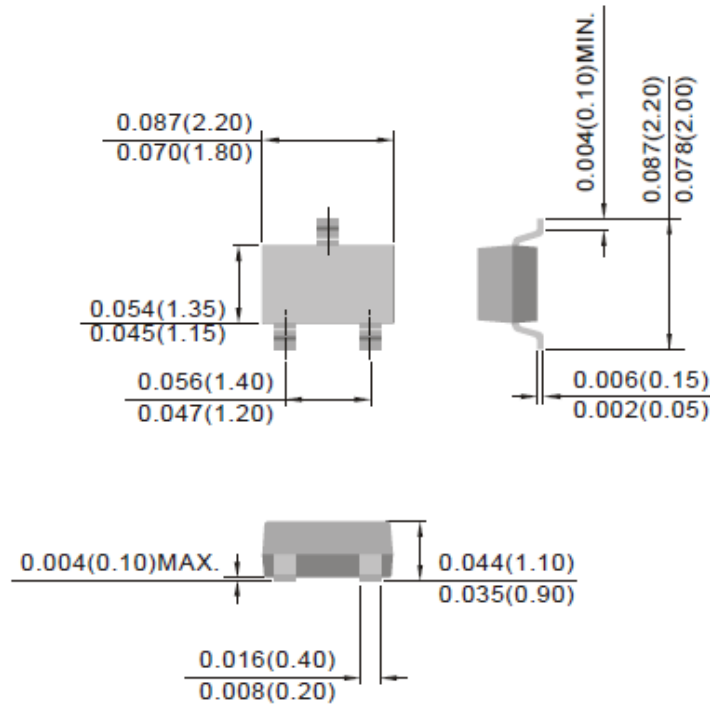
Fig.4 Typical Forward Voltage

# 200mW Surface Mount Zener Diodes

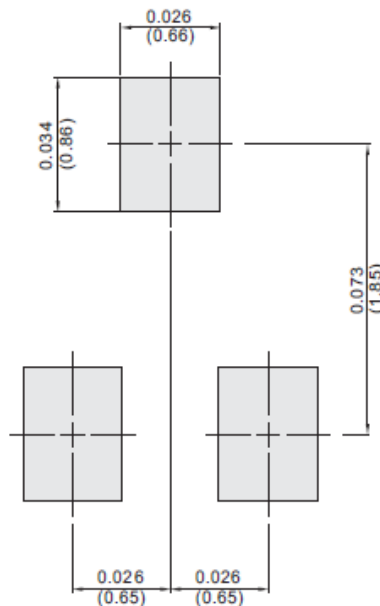
## TZTC2V4WS-TZTC75WS

Dimensions in inches (mm)

SOT-323



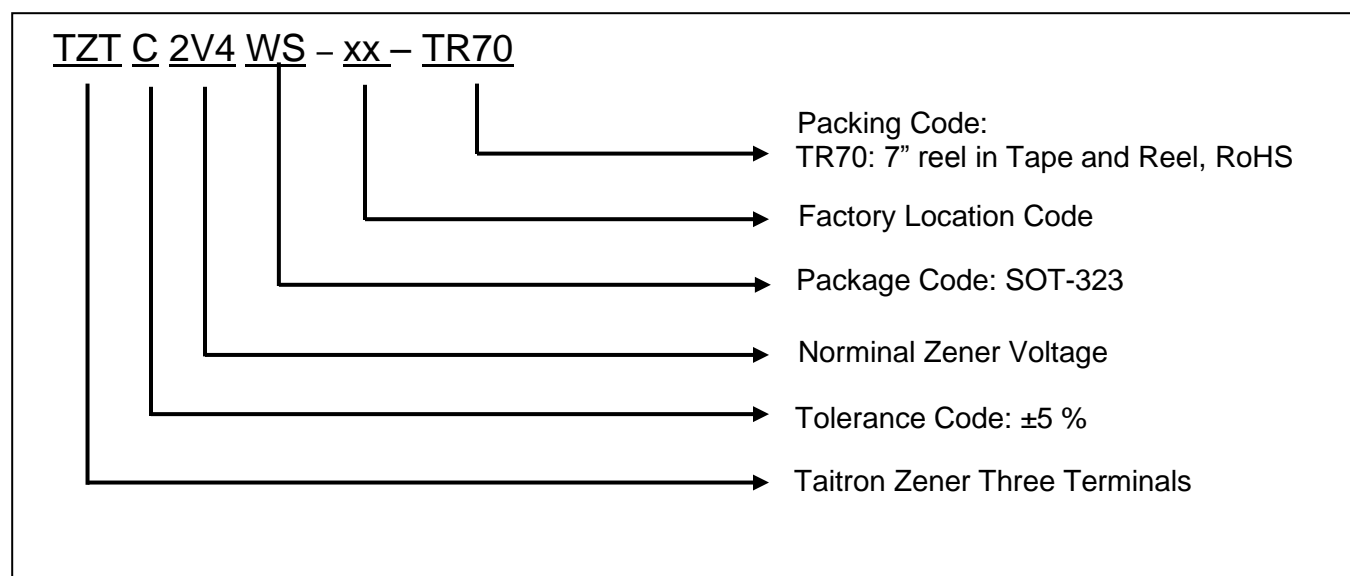
Mounting Pad Layout in inch (mm)



# 200mW Surface Mount Zener Diodes

## TZTC2V4WS-TZTC75WS

### Ordering Information



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