



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



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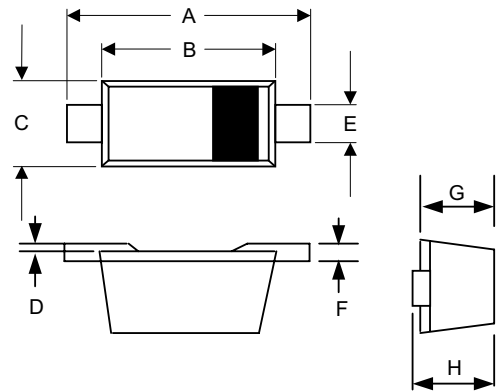
# BZT52C2V4T THRU BZT52C39T

**200 mW  
Zener Diode  
2.4 to 39 Volts**

## Features

- Planar Die Construction
- 200mW Power Dissipation
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

## SOD523



## Absolute Maximum Ratings

Symbol	Parameter	Rating	Unit
$P_D$	Power dissipation	200	mW
$T_J$	Junction Temperature	-65 to +150	°C
$T_{STG}$	Storage Temperature Range	-65 to +150	°C

## Absolute Maximum Ratings

Symbol	Parameter	Rating	Unit
$R_{thJA}$	Thermal Resistance Junction to Ambient	625	°C/W

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.059	.067	1.50	1.70	
B	.043	.051	1.10	1.30	
C	.030	.033	0.75	0.85	
D	.001	.003	0.01	0.07	
E	.010	.014	0.25	0.35	
F	.003	.006	0.08	0.15	
G	.020	.028	0.50	0.70	
H	.020	.031	0.51	0.77	

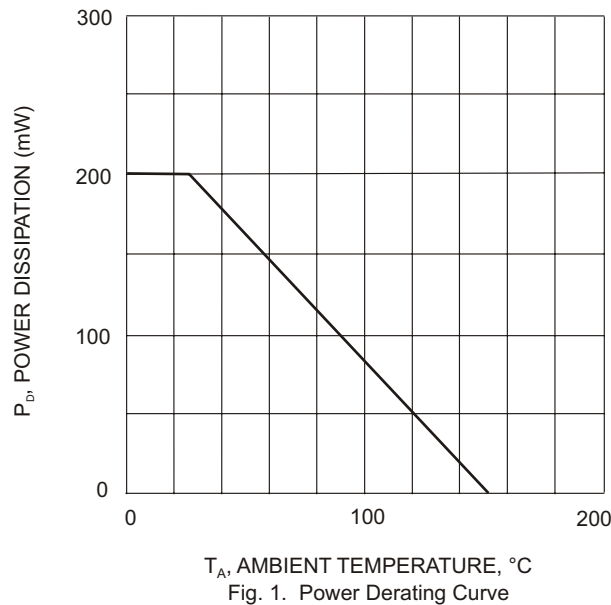
## Electrical Characteristics

Symbol	Parameter	Rating	Unit
$V_F$	Maximum Forward Voltage ( $I_F=10mA_{dc}$ )	0.9	V

**ELECTRICAL CHARACTERISTICS @25°C**

Type	ZENER VOLTAGE $V_Z^{(1)}$ VOLTS			Maximum Zener Impedance <sup>(2)</sup> $Z_{ZT}$ (OHMS)		Maximum Zener Impedance <sup>(2)</sup> $Z_{ZK}$ (OHMS)		REVERSE CURRENT $I_R$ (Max) @ $V_R$		Typical Temperature Coefficient @ $I_{ZTC}$		Marking
	Min.	Nom	Max.	$I_{ZT}$ (mA)	Max.	$I_{ZK}$ (mA)	Max.	uA	V	mV/°C		
BZT52C2V4T	2.28	2.4	2.56	5	100	1.0	600	50	1.0	-3.5	0	Z11
BZT52C2V7T	2.5	2.7	2.9	5	100	1.0	600	20	1.0	-3.5	0	Z12
BZT52C3V0T	2.8	3.0	3.2	5	95	1.0	600	10	1.0	-3.5	0	Z13
BZT52C3V3T	3.1	3.3	3.5	5	95	1.0	600	5	1.0	-3.5	0	Z14
BZT52C3V6T	3.4	3.6	3.8	5	90	1.0	600	5	1.0	-3.5	0	Z15
BZT52C3V9T	3.7	3.9	4.1	5	90	1.0	600	3	1.0	-3.5	0	Z16
BZT52C4V3T	4.0	4.3	4.6	5	90	1.0	600	3	1.0	-3.5	0	Z17
BZT52C4V7T	4.4	4.7	5.0	5	80	1.0	500	3	2.0	-3.5	0.2	Z1
BZT52C5V1T	4.8	5.1	5.4	5	60	1.0	480	2	2.0	-2.7	1.2	Z2
BZT52C5V6T	5.2	5.6	6.0	5	40	1.0	400	1	2.0	-2.0	2.5	Z3
BZT52C6V2T	5.8	6.2	6.6	5	10	1.0	150	3	4.0	0.4	3.7	Z4
BZT52C6V8T	6.4	6.8	7.2	5	15	1.0	80	2	4.0	1.2	4.5	Z5
BZT52C7V5T	7.0	7.5	7.9	5	15	1.0	80	1	5.0	2.5	5.3	Z6
BZT52C8V2T	7.7	8.2	8.7	5	15	1.0	80	0.7	5.0	3.2	6.2	Z7
BZT52C9V1T	8.5	9.1	9.6	5	15	1.0	100	0.5	6.0	3.8	7.0	Z8
BZT52C10T	9.4	10	10.6	5	20	1.0	150	0.2	7.0	4.5	8.0	Z9
BZT52C11T	10.4	11	11.6	5	20	1.0	150	0.1	8.0	5.4	9.0	Y1
BZT52C12T	11.4	12	12.7	5	25	1.0	150	0.1	8.0	6.0	10.0	Y2
BZT52C13T	12.4	13	14.1	5	30	1.0	170	0.1	8.0	7.0	11.0	Y3
BZT52C15T	13.8	15	15.6	5	30	1.0	200	0.1	10.5	9.2	13.0	Y4
BZT52C16T	15.3	16	17.1	5	40	1.0	200	0.1	11.2	10.4	14.0	Y5
BZT52C18T	16.8	18	19.1	5	45	1.0	225	0.1	12.6	12.4	16.0	Y6
BZT52C20T	18.8	20	21.2	5	55	1.0	225	0.1	14.0	14.4	18.0	Y7
BZT52C22T	20.8	22	23.3	5	55	1.0	250	0.1	15.4	16.4	20.0	Y8
BZT52C24T	22.8	24	25.6	5	70	1.0	250	0.1	16.8	18.4	22.0	Y9
BZT52C27T	25.1	27	28.9	2	80	0.5	300	0.1	18.9	21.4	25.3	Y10
BZT52C30T	28	30	32	2	80	0.5	300	0.1	21.0	24.4	29.4	Y11
BZT52C33T	31	33	35	2	80	0.5	325	0.1	23.1	27.4	33.4	Y12
BZT52C36T	34	36	38	2	90	0.5	350	0.1	25.2	30.4	37.4	Y13
BZT52C39T	37	39	41	2	130	0.5	350	0.1	27.3	33.4	41.2	Y14

(1) Tested with pulses, period = 5ms, pulse width=300us  
 (2) f=1KHz





Micro Commercial Components

### Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 8Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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