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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.

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Micro Commercial Components



Micro Commercial Components
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BZT52C2V4
THRU
BZT52C43

Features

- Planar Die Construction
500mW Power Dissipation on Ceramic PCB
General Purpose Medium Current
Ideally Suited for Automated Assembly Processes
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"

500 mW
Zener Diode
2.4 to 43 Volts

Absolute Maximum Ratings

Table with 4 columns: Symbol, Rating, Rating, Unit. Rows include Power dissipation (500 mW), Junction Temperature (-65 to +150 °C), and Storage Temperature Range (-65 to +150 °C).

Absolute Maximum Ratings

Table with 4 columns: Symbol, Rating, Rating, Unit. Row includes Thermal Resistance Junction to Ambient* (250 °C/W).

* Device mounted on ceramic PCB: 7.6mm x 9.4mm x 0.87mm with pad areas 25 mm²

Electrical Characteristics

Table with 4 columns: Symbol, Rating, Rating, Unit. Row includes Maximum Forward Voltage (VF) at IF=10mA (0.9 V).

SOD-123

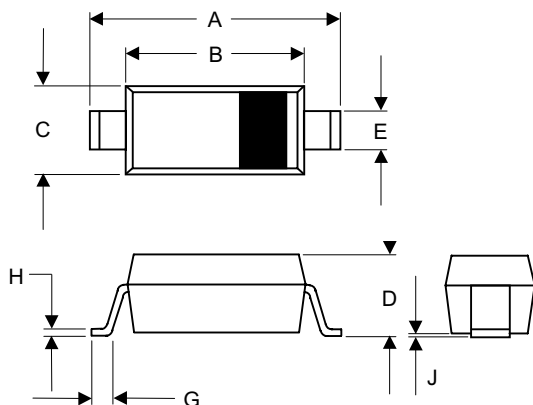
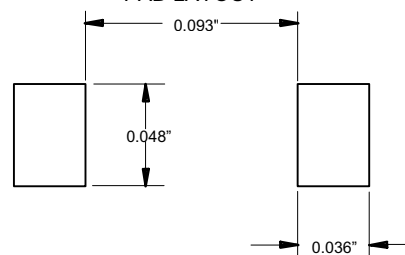


Table titled DIMENSIONS with columns for DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Rows A through J provide specific dimension values.

SUGGESTED SOLDER PAD LAYOUT



ELECTRICAL CHARACTERISTICS @25°C

Type	ZENER VOLTAGE $V_Z^{(1)}$ VOLTS			Maximum Zener Impedance ⁽²⁾ Z_{ZT} (OHMS)		Maximum Zener Impedance ⁽²⁾ 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.	μA	V	mV/°C		
BZT52C2V4	2.28	2.4	2.56	5	100	1.0	600	50	1.0	-3.5	0	WX
BZT52C2V7	2.5	2.7	2.9	5	100	1.0	600	20	1.0	-3.5	0	W1
BZT52C3V0	2.8	3.0	3.2	5	95	1.0	600	10	1.0	-3.5	0	W2
BZT52C3V3	3.1	3.3	3.5	5	95	1.0	600	5	1.0	-3.5	0	W3
BZT52C3V6	3.4	3.6	3.8	5	90	1.0	600	5	1.0	-3.5	0	W4
BZT52C3V9	3.7	3.9	4.1	5	90	1.0	600	3	1.0	-3.5	0	W5
BZT52C4V3	4.0	4.3	4.6	5	90	1.0	600	3	1.0	-3.5	0	W6
BZT52C4V7	4.4	4.7	5.0	5	80	1.0	500	3	2.0	-3.5	0.2	W7
BZT52C5V1	4.8	5.1	5.4	5	60	1.0	480	2	2.0	-2.7	1.2	W8
BZT52C5V6	5.2	5.6	6.0	5	40	1.0	400	1	2.0	-2.0	2.5	W9
BZT52C6V2	5.8	6.2	6.6	5	10	1.0	150	3	4.0	0.4	3.7	WA
BZT52C6V8	6.4	6.8	7.2	5	15	1.0	80	2	4.0	1.2	4.5	WB
BZT52C7V5	7.0	7.5	7.9	5	15	1.0	80	1	5.0	2.5	5.3	WC
BZT52C8V2	7.7	8.2	8.7	5	15	1.0	80	0.7	5.0	3.2	6.2	WD
BZT52C9V1	8.5	9.1	9.6	5	15	1.0	100	0.5	6.0	3.8	7.0	WE
BZT52C10	9.4	10	10.6	5	20	1.0	150	0.2	7.0	4.5	8.0	WF
BZT52C11	10.4	11	11.6	5	20	1.0	150	0.1	8.0	5.4	9.0	WG
BZT52C12	11.4	12	12.7	5	25	1.0	150	0.1	8.0	6.0	10.0	WH
BZT52C13	12.4	13	14.1	5	30	1.0	170	0.1	8.0	7.0	11.0	WI
BZT52C15	13.8	15	15.6	5	30	1.0	200	0.1	10.5	9.2	13.0	WJ
BZT52C16	15.3	16	17.1	5	40	1.0	200	0.1	11.2	10.4	14.0	WK
BZT52C18	16.8	18	19.1	5	45	1.0	225	0.1	12.6	12.4	16.0	WL
BZT52C20	18.8	20	21.2	5	55	1.0	225	0.1	14.0	14.4	18.0	WM
BZT52C22	20.8	22	23.3	5	55	1.0	250	0.1	15.4	16.4	20.0	WN
BZT52C24	22.8	24	25.6	5	70	1.0	250	0.1	16.8	18.4	22.0	WO
BZT52C27	25.1	27	28.9	2	80	0.5	300	0.1	18.9	21.4	25.3	WP
BZT52C30	28	30	32	2	80	0.5	300	0.1	21.0	24.4	29.4	WQ
BZT52C33	31	33	35	2	80	0.5	325	0.1	23.1	27.4	33.4	WR
BZT52C36	34	36	38	2	90	0.5	350	0.1	25.2	30.4	37.4	WS
BZT52C39	37	39	41	2	130	0.5	350	0.1	27.3	33.4	41.2	WT
BZT52C43	40	43	46	5	100	1.0	700	0.1	32.0	10.0	12.0	WU

(1) Device mounted on ceramic PCB: 7.6mm x 9.4mm x 0.87mm with pad areas 25 mm²
 (2) f=1KHz

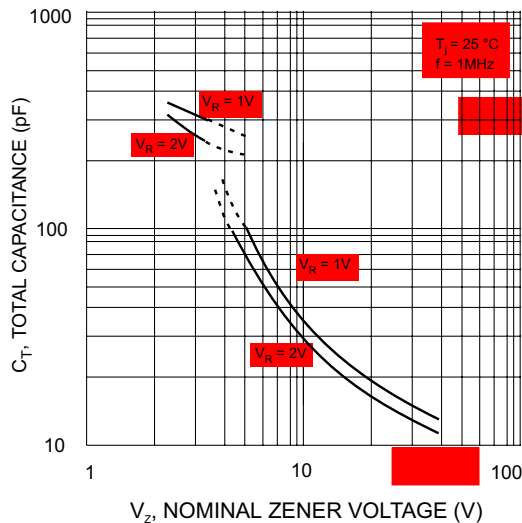


Fig. 1 Total Capacitance vs Nominal Zener Voltage

BZT52C2V4 THRU BZT52C43

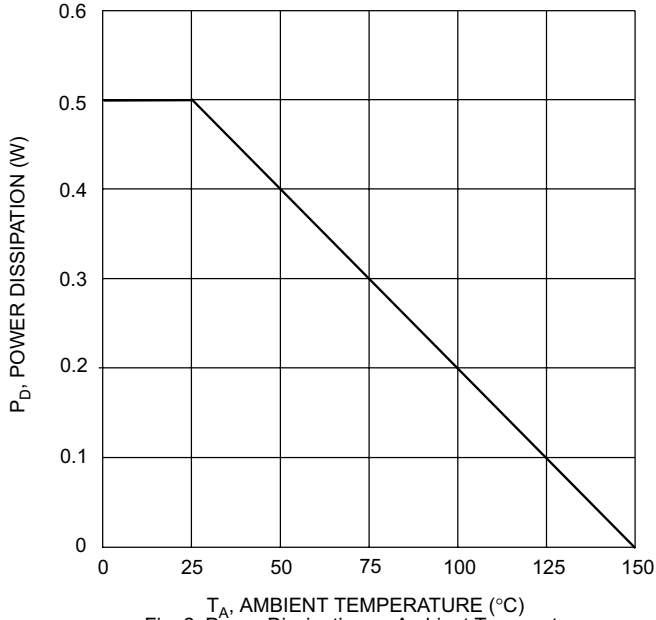


Fig. 2 Power Dissipation vs Ambient Temperature

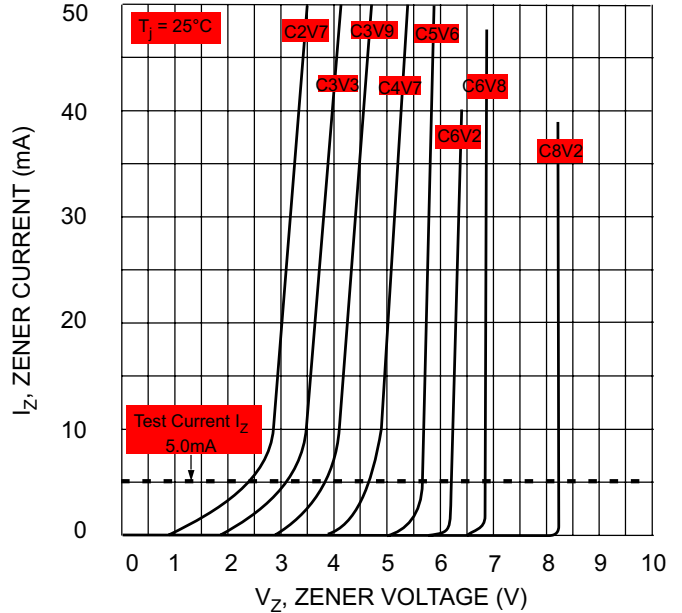


Fig. 3 Zener Breakdown Characteristics

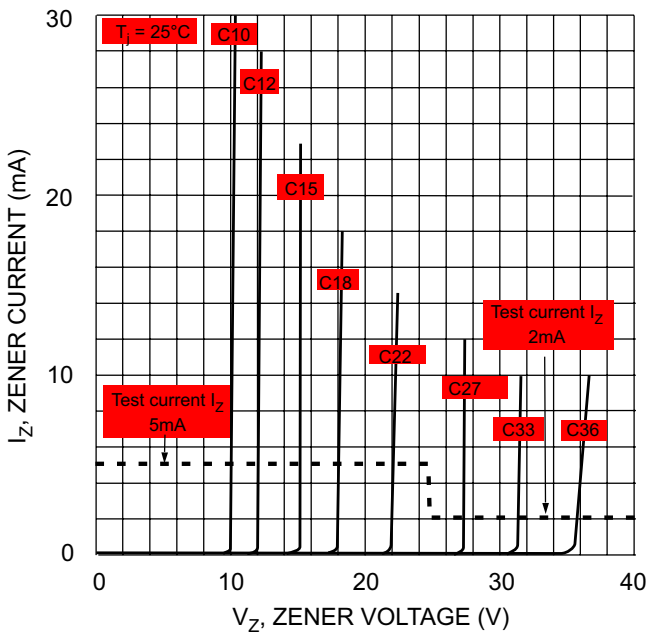


Fig. 4 Zener Breakdown Characteristics

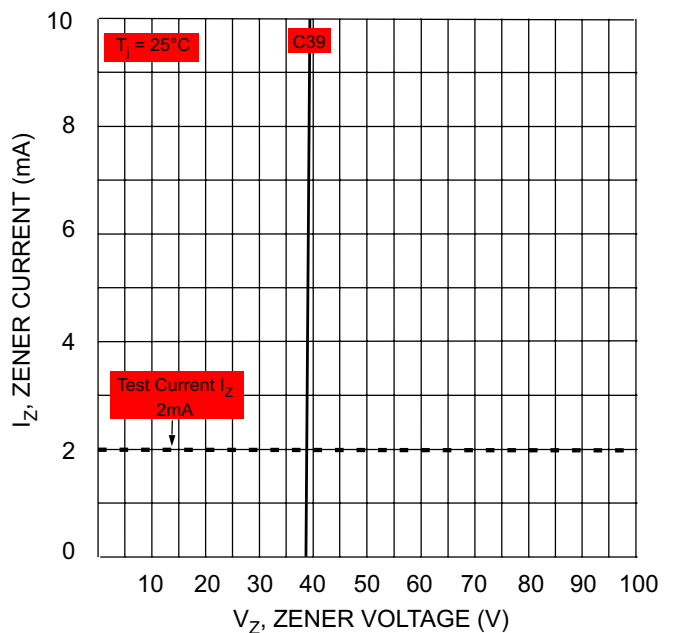


Fig. 5 Zener Breakdown Characteristics



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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

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