



## BZT52C2V0 THRU BZT52C75 SILICON PLANAR ZENER DIODES

### FEATURES

- \* Ideal for surface mount applications
- \* Easy pick and place
- \* High temperature soldering guaranteed:  
260°C / 10 seconds at terminals

### MECHANICAL DATA

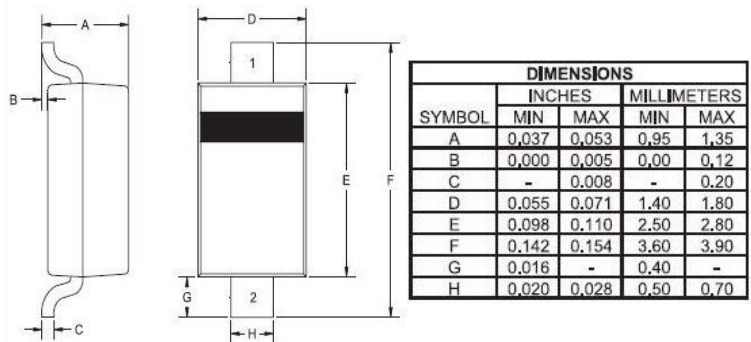
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Metallurgically bonded construction
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any

### VOLTAGE RANGE

2.0 to 75 Volts

500mW

SOD123



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.  
Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

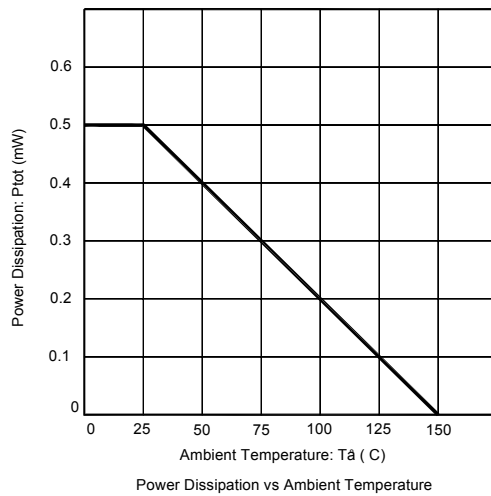
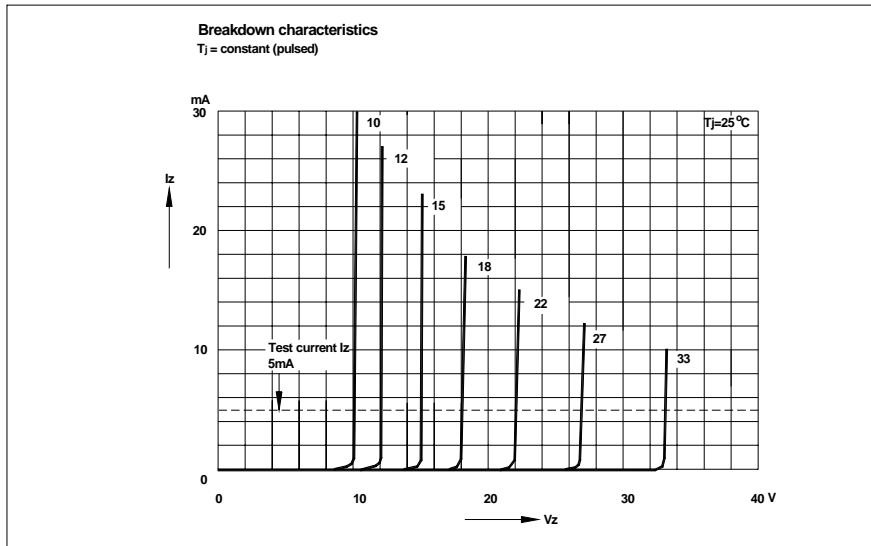
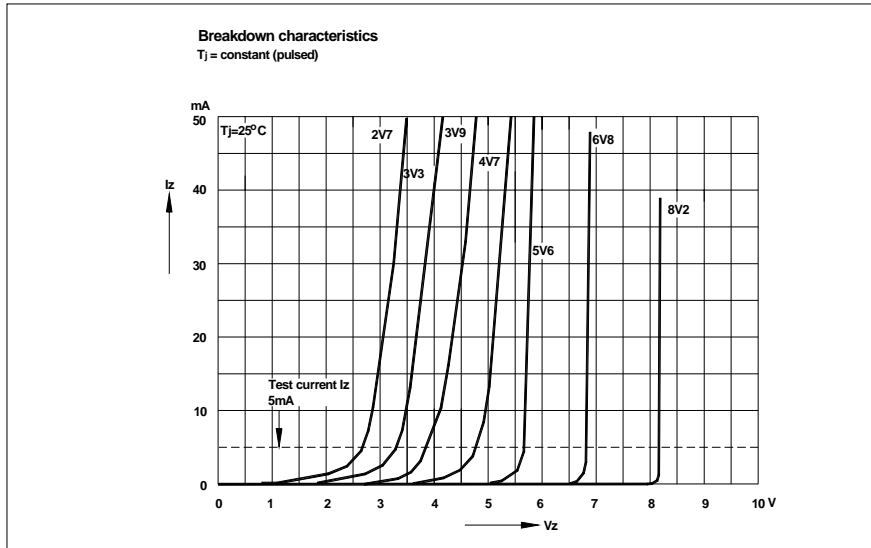
#### Absolute Maximum Ratings (T<sub>a</sub> = 25°C)

Parameter	Symbol	Value	Unit
Power Dissipation	P <sub>tot</sub>	500	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	- 65 to + 150	°C

#### Characteristics at T<sub>a</sub> = 25°C

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	R <sub>thA</sub>	340	°C/W
Forward Voltage at I <sub>F</sub> = 10 mA	V <sub>F</sub>	0.9	V

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## Characteristics at Ta = 25°C

Type	Marking	Zener Voltage Range <sup>(2)</sup>				Maximum Zener <sup>(3)</sup> Impedance				Reverse Current <sup>(2)</sup>	
		V <sub>ZT</sub> ( at I <sub>ZT</sub> )			I <sub>ZT</sub>	Z <sub>ZT</sub> @I <sub>ZT</sub>	I <sub>ZT</sub>	Z <sub>ZK</sub> @I <sub>ZK</sub>	I <sub>ZK</sub>	I <sub>R</sub>	@V <sub>R</sub>
		Min ( V )	Nom ( V )	Max ( V )	(mA)	(Ω)	(mA)	(Ω)	(mA)	μA	V
BZT52C2V0	WY	1.91	2.0	2.09	5	100	5	600	1	150	1.0
BZT52C2V4	WX	2.2	2.4	2.6	5	100	5	600	1	50	1.0
BZT52C2V7	W1	2.5	2.7	2.9	5	100	5	600	1	20	1.0
BZT52C3V0	W2	2.8	3.0	3.2	5	95	5	600	1	10	1.0
BZT52C3V3	W3	3.1	3.3	3.5	5	95	5	600	1	5.0	1.0
BZT52C3V6	W4	3.4	3.6	3.8	5	90	5	600	1	5.0	1.0
BZT52C3V9	W5	3.7	3.9	4.1	5	90	5	600	1	3.0	1.0
BZT52C4V3	W6	4	4.3	4.6	5	90	5	600	1	3.0	1.0
BZT52C4V7	W7	4.4	4.7	5	5	80	5	500	1	3.0	2.0
BZT52C5V1	W8	4.8	5.1	5.4	5	60	5	480	1	2.0	2.0
BZT52C5V6	W9	5.2	5.6	6	5	40	5	400	1	1.0	2.0
BZT52C6V2	WA	5.8	6.2	6.6	5	10	5	150	1	3.0	4.0
BZT52C6V8	WB	6.4	6.8	7.2	5	15	5	80	1	2.0	4.0
BZT52C7V5	WC	7	7.5	7.9	5	15	5	80	1	1.0	5.0
BZT52C8V2	WD	7.7	8.2	8.7	5	15	5	80	1	0.7	5.0
BZT52C9V1	WE	8.5	9.1	9.6	5	15	5	100	1	0.5	6.0
BZT52C10	WF	9.4	10	10.6	5	20	5	150	1	0.2	7.0
BZT52C11	WG	10.4	11	11.6	5	20	5	150	1	0.1	8.0
BZT52C12	WH	11.4	12	12.7	5	25	5	150	1	0.1	8.0
BZT52C13	WI	12.4	13	14.1	5	30	5	170	1	0.1	8.0
BZT52C15	WJ	13.8	15	15.6	5	30	5	200	1	0.1	10.5
BZT52C16	WK	15.3	16	17.1	5	40	5	200	1	0.1	11.2
BZT52C18	WL	16.8	18	19.1	5	45	5	225	1	0.1	12.6
BZT52C20	WM	18.8	20	21.2	5	55	5	225	1	0.1	14.0
BZT52C22	WN	20.8	22	23.3	5	55	5	250	1	0.1	15.4
BZT52C24	WO	22.8	24	25.6	5	70	5	250	1	0.1	16.8
BZT52C27	WP	25.1	27	28.9	2	80	2	300	0.5	0.1	18.9
BZT52C30	WQ	28	30	32	2	80	2	300	0.5	0.1	21.0
BZT52C33	WR	31	33	35	2	80	2	325	0.5	0.1	23.1
BZT52C36	WS	34	36	38	2	90	2	350	0.5	0.1	25.2
BZT52C39	WT	37	39	41	2	130	2	350	0.5	0.1	27.3
BZT52C43	6A	40	43	46	2.5	130	2	500	1	2	33
BZT52C47	6B	44	47	50	2.5	150	2	500	1	2	36
BZT52C51	6C	48	51	54	2.5	180	2	500	1	1	37
BZT52C56	6D	52	56	60	2.5	180	2	500	1	1	43
BZT52C62	6E	58	62	66	2.5	200	2	500	1	0.2	47
BZT52C68	6F	64	68	72	2.5	250	2	500	1	0.2	52
BZT52C75	6H	70	75	79	2.5	300	2	500	1	0.2	57

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