



Micro Commercial Components

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# BZM55C2V0 THRU BZM55C75

## 500 mW Zener Diode 2.0 to 75 Volts

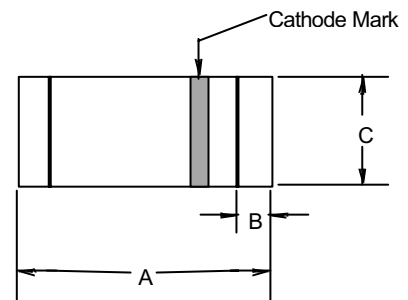
### Features

- Saving space
- Hermetic sealed parts
- Fits onto SOD323/SOT23 footprints
- Electrical data identical with the devices BZT55C.../TZMC...
- Very sharp reverse characteristic
- Low reverse current level
- Very high stability
- Available with tighter tolerances

### Absolute Maximum Ratings

Symbol	Rating	Rating	Unit
$P_D$	Power dissipation	500	mW
$T_J$	Junction Temperature	175	°C
$T_{STG}$	Storage Temperature Range	-65 to +175	°C

### MICROMELF



### Absolute Maximum Ratings

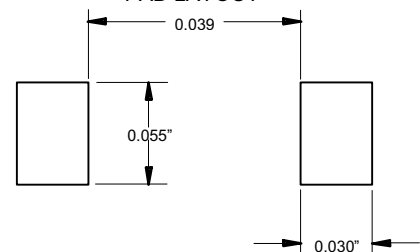
Symbol	Rating	Rating	Unit
$R_{thJA}$	Junction Ambient	500	K/W

DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.071	.079	1.8	2.0	
B	.004	.008	.10	.20	
C	.047	.051	1.20	1.30	Ø

### Electrical Characteristics

Symbol	Rating	Rating	Unit
$V_F$	Maximum Forward Voltage ( $I_F=200mA_{dc}$ )	1.5	V

### SUGGESTED SOLDER PAD LAYOUT



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## ELECTRICAL CHARACTERISTICS @25°C

Type	ZENER VOLTAGE $V_Z^{(1)}$ VOLTS			Operating Resistance $Z_Z$ (OHMS)		Rising Operating Resistance $Z_{ZK}$ (OHMS)		REVERSE CURRENT $I_R$ (Max) @ $V_R$			$TK_{VZ}$
	Min.	Nom	Max.	$I_{ZT}$ (mA)	Max.	$I_{ZK}$ (mA)	Max.	$\mu A$	$\mu A^{(2)}$	V	%/K
BZM55C2V0	1.9	2.0	2.1	5.0	100	1.0	600	150	300	1.0	-0.09 to -0.06
BZM55C2V2	2.09	2.2	2.31	5.0	100	1.0	600	150	300	1.0	-0.09 to -0.06
BZM55C2V4	2.28	2.4	2.56	5.0	85	1.0	600	50	100	1.0	-0.09 to -0.06
BZM55C2V7	2.5	2.7	2.9	5.0	85	1.0	600	10	50	1.0	-0.09 to -0.06
BZM55C3V0	2.8	3.0	3.2	5.0	85	1.0	600	4.0	40	1.0	-0.08 to -0.05
BZM55C3V3	3.1	3.3	3.5	5.0	85	1.0	600	2.0	40	1.0	-0.08 to -0.05
BZM55C3V6	3.4	3.6	3.8	5.0	85	1.0	600	2.0	40	1.0	-0.08 to -0.05
BZM55C3V9	3.7	3.9	4.1	5.0	85	1.0	600	2.0	40	1.0	-0.08 to -0.05
BZM55C4V3	4.0	4.3	4.6	5.0	75	1.0	600	1.0	20	1.0	-0.06 to -0.03
BZM55C4V7	4.4	4.7	5.0	5.0	60	1.0	600	0.5	10	1.0	-0.05 to +0.02
BZM55C5V1	4.8	5.1	5.4	5.0	35	1.0	550	0.1	2.0	1.0	-0.02 to +0.02
BZM55C5V6	5.2	5.6	6.0	5.0	25	1.0	450	0.1	2.0	1.0	-0.05 to +0.05
BZM55C6V2	5.8	6.2	6.6	5.0	10	1.0	200	0.1	2.0	2.0	0.03 to 0.06
BZM55C6V8	6.4	6.8	7.2	5.0	8.0	1.0	150	0.1	2.0	3.0	0.03 to 0.07
BZM55C7V5	7.0	7.5	7.9	5.0	7.0	1.0	50	0.1	2.0	5.0	0.03 to 0.07
BZM55C8V2	7.7	8.2	8.7	5.0	7.0	1.0	50	0.1	2.0	6.2	0.03 to 0.08
BZM55C9V1	8.5	9.1	9.6	5.0	10	1.0	50	0.1	2.0	6.8	0.03 to 0.09
BZM55C10	9.4	10	10.6	5.0	15	1.0	70	0.1	2.0	7.5	0.03 to 0.1
BZM55C11	10.4	11	11.6	5.0	20	1.0	70	0.1	2.0	8.2	0.03 to 0.11
BZM55C12	11.4	12	12.7	5.0	20	1.0	90	0.1	2.0	9.1	0.03 to 0.11
BZM55C13	12.4	13	14.1	5.0	26	1.0	110	0.1	2.0	10	0.03 to 0.11
BZM55C15	13.8	15	15.6	5.0	30	1.0	110	0.1	2.0	11	0.03 to 0.11
BZM55C16	15.3	16	17.1	5.0	40	1.0	170	0.1	2.0	12	0.03 to 0.11
BZM55C18	16.8	18	19.1	5.0	50	1.0	170	0.1	2.0	13	0.03 to 0.11
BZM55C20	18.8	20	21.2	5.0	55	1.0	220	0.1	2.0	15	0.03 to 0.11
BZM55C22	20.8	22	23.3	5.0	55	1.0	220	0.1	2.0	16	0.04 to 0.12
BZM55C24	22.8	24	25.6	5.0	80	1.0	220	0.1	2.0	18	0.04 to 0.12
BZM55C27	25.1	27	28.9	5.0	80	1.0	220	0.1	2.0	20	0.04 to 0.12
BZM55C30	28	30	32	5.0	80	1.0	220	0.1	2.0	22	0.04 to 0.12
BZM55C33	31	33	35	5.0	80	1.0	220	0.1	2.0	24	0.04 to 0.12
BZM55C36	34	36	38	5.0	80	1.0	220	0.1	2.0	27	0.04 to 0.12
BZM55C39	37	39	41	2.5	90	0.5	500	0.1	5.0	30	0.04 to 0.12
BZM55C43	40	43	46	2.5	90	0.5	600	0.1	5.0	33	0.04 to 0.12
BZM55C47	44	47	50	2.5	110	0.5	700	0.1	5.0	36	0.04 to 0.12
BZM55C51	48	51	54	2.5	125	0.5	700	0.1	10	38	0.04 to 0.12
BZM55C56	52	56	60	2.5	135	0.5	1000	0.1	10	43	0.04 to 0.12
BZM55C62	58	62	66	2.5	150	0.5	1000	0.1	10	47	0.04 to 0.12
BZM55C68	64	68	72	2.5	200	0.5	1000	0.1	10	51	0.04 to 0.12
BZM55C75	70	75	79	2.5	250	0.5	1500	0.1	10	56	0.04 to 0.12

(1)  $t_p/T \leq 100ms$ , tighter tolerances available on request.

(2) at  $T_j = 150^\circ C$

(3) BZM55B....  $\pm 2\%$  of  $V_{Znom}$



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