

™

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
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)

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

Absolute Maximum Ratings

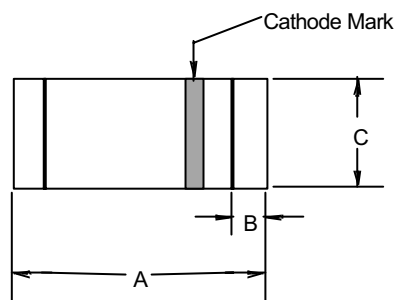
Symbol	Rating	Rating	Unit
R_{thJA}	Junction Ambient	500	K/W

Electrical Characteristics

Symbol	Rating	Rating	Unit
V_F	Maximum Forward Voltage ($I_F=200\text{mA}$)	1.5	V

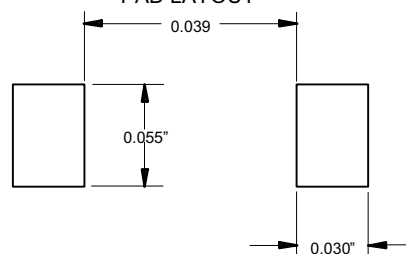
Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

MICROMELF



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

SUGGESTED SOLDER PAD LAYOUT



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TM

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.	μA	$\mu A^{(2)}$	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}

Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;2.5Kpcs/Reel

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