



Micro Commercial Components

Micro Commercial Components  
20736 Marilla Street Chatsworth  
CA 91311  
Phone: (818) 701-4933  
Fax: (818) 701-4939

# BZV55C2V0 THRU BZV55C75

## 500 mW Zener Diode 2.0 to 75 Volts

### Features

- Small surface mounting type
- High reliability
- 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
$I_Z$	Z-current	$P_V/V_Z$	mA
$T_J$	Junction Temperature	-55 to +150	°C
$T_{STG}$	Storage Temperature Range	-55 to +150	°C

### Maximum Thermal Resistance

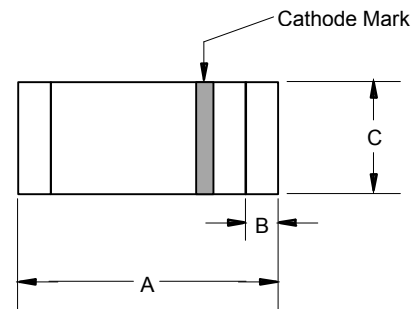
Symbol	Rating	Rating	Unit
$R_{thJA}$	Junction Ambient	500	K/W

### Electrical Characteristics

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

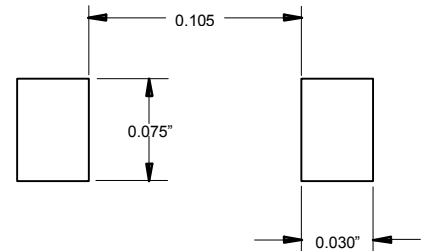
Notes:1. Lead in Glass Exemption Applied, see EU Directive Annex 5.

### MiniMELF



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.134	.142	3.40	3.60	
B	.008	.016	.20	.40	
C	.055	.059	1.40	1.50	∅

### SUGGESTED SOLDER PAD LAYOUT



## BZV55C2V0 thru BZV55C75

**ELECTRICAL CHARACTERISTICS @25°C**

Type	V <sub>Z</sub> VOLTS	I <sub>ZT</sub> for V <sub>ZT</sub> and		r <sub>ZT</sub>	r <sub>ZK</sub> at I <sub>ZK</sub>		REVERSE CURRENT I <sub>R</sub> (Max) @ V <sub>R</sub>			TK <sub>VZ</sub>
	Nom	mA	V <sup>(1)</sup>	Ω	Ω	mA (Max)	μA	μA <sup>(2)</sup>	V	%/K
BZV55C2V0	2.0	5.0	1.9-2.1	100	600	1.0	<150	<300	1.0	-0.09 to -0.06
BZV55C2V2	2.2	5.0	2.09-2.31	100	600	1.0	<150	<300	1.0	-0.09 to -0.06
BZV55C2V4	2.4	5.0	2.28-2.56	<85	600	1.0	<50	<100	1.0	-0.09 to -0.06
BZV55C2V7	2.7	5.0	2.5-2.9	<85	600	1.0	<10	<50	1.0	-0.09 to -0.06
BZV55C3V0	3.0	5.0	2.8-3.2	<85	600	1.0	<4.0	<40	1.0	-0.08 to -0.05
BZV55C3V3	3.3	5.0	3.1-3.5	<85	600	1.0	<2.0	<40	1.0	-0.08 to -0.05
BZV55C3V6	3.6	5.0	3.4-3.8	<85	600	1.0	<2.0	<40	1.0	-0.08 to -0.05
BZV55C3V9	3.9	5.0	3.7-4.1	<85	600	1.0	<2.0	<40	1.0	-0.08 to -0.05
BZV55C4V3	4.3	5.0	4.0-4.6	<75	600	1.0	<1.0	<20	1.0	-0.06 to -0.03
BZV55C4V7	4.7	5.0	4.4-5.0	<60	600	1.0	<0.5	<10	1.0	-0.05 to +0.02
BZV55C5V1	5.1	5.0	4.8-5.4	<35	550	1.0	<0.1	<2.0	1.0	-0.02 to +0.02
BZV55C5V6	5.6	5.0	5.2-6.0	<25	450	1.0	<0.1	<2.0	1.0	-0.05 to +0.05
BZV55C6V2	6.2	5.0	5.8-6.6	<10	200	1.0	<0.1	<2.0	2.0	0.03 to 0.06
BZV55C6V8	6.8	5.0	6.4-7.2	<8	150	1.0	<0.1	<2.0	3.0	0.03 to 0.07
BZV55C7V5	7.5	5.0	7.0-7.9	<7	50	1.0	<0.1	<2.0	5.0	0.03 to 0.07
BZV55C8V2	8.2	5.0	7.7-8.7	<7	50	1.0	<0.1	<2.0	6.2	0.03 to 0.08
BZV55C9V1	9.1	5.0	8.5-9.6	<10	50	1.0	<0.1	<2.0	6.8	0.03 to 0.09
BZV55C10	10	5.0	9.4-10.6	<15	70	1.0	<0.1	<2.0	7.5	0.03 to 0.1
BZV55C11	11	5.0	10.4-11.6	<20	70	1.0	<0.1	<2.0	8.2	0.03 to 0.11
BZV55C12	12	5.0	11.4-12.7	<20	90	1.0	<0.1	<2.0	9.1	0.03 to 0.11
BZV55C13	13	5.0	12.4-14.1	<26	110	1.0	<0.1	<2.0	10	0.03 to 0.11
BZV55C15	15	5.0	13.8-15.6	<30	110	1.0	<0.1	<2.0	11	0.03 to 0.11
BZV55C16	16	5.0	15.3-17.1	<40	170	1.0	<0.1	<2.0	12	0.03 to 0.11
BZV55C18	18	5.0	16.8-19.1	<50	170	1.0	<0.1	<2.0	13	0.03 to 0.11
BZV55C20	20	5.0	18.8-21.2	<55	220	1.0	<0.1	<2.0	15	0.03 to 0.11
BZV55C22	22	5.0	20.8-23.3	<55	220	1.0	<0.1	<2.0	16	0.04 to 0.12
BZV55C24	24	5.0	22.8-25.6	<80	220	1.0	<0.1	<2.0	18	0.04 to 0.12
BZV55C27	27	5.0	25.1-28.9	<80	220	1.0	<0.1	<2.0	20	0.04 to 0.12
BZV55C30	30	5.0	28-32	<80	220	1.0	<0.1	<2.0	22	0.04 to 0.12
BZV55C33	33	5.0	31-35	<80	220	1.0	<0.1	<2.0	24	0.04 to 0.12
BZV55C36	36	5.0	34-38	<80	220	1.0	<0.1	<2.0	27	0.04 to 0.12
BZV55C39	39	2.5	37-41	<90	500	0.5	<0.1	<5.0	30	0.04 to 0.12
BZV55C43	43	2.5	40-46	<90	600	0.5	<0.1	<5.0	33	0.04 to 0.12
BZV55C47	47	2.5	44-50	<110	700	0.5	<0.1	<5.0	36	0.04 to 0.12
BZV55C51	51	2.5	48-54	<125	700	0.5	<0.1	<10	39	0.04 to 0.12
BZV55C56	56	2.5	52-60	<135	1000	0.5	<0.1	<10	43	0.04 to 0.12
BZV55C62	62	2.5	58-66	<150	1000	0.5	<0.1	<10	47	0.04 to 0.12
BZV55C68	68	2.5	64-72	<200	1000	0.5	<0.1	<10	51	0.04 to 0.12
BZV55C75	75	2.5	70-79	<250	1500	0.5	<0.1	<10	56	0.04 to 0.12

 (1) Tighter tolerances available on request: BZV55B...±2% of V<sub>Znom</sub>

 (2) at T<sub>j</sub>=150°C



Micro Commercial Components

## Ordering Information

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

### \*\*\*IMPORTANT NOTICE\*\*\*

*Micro Commercial Components Corp.* reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp.* does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp.* and all the companies whose products are represented on our website, harmless against all damages.

### \*\*\*APPLICATIONS DISCLAIMER\*\*\*

Products offer by *Micro Commercial Components Corp.* are not intended for use in Medical, Aerospace or Military Applications.