



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)
- Moisture Sensitivity Level 1

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 +175	°C
T_{STG}	Storage Temperature Range	-55 to +175	°C

Maximum Thermal Resistance

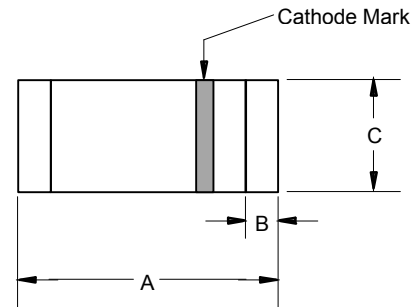
Symbol	Rating	Rating	Unit
R_{thJA}	Junction Ambient	500	K/W

Electrical Characteristics

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

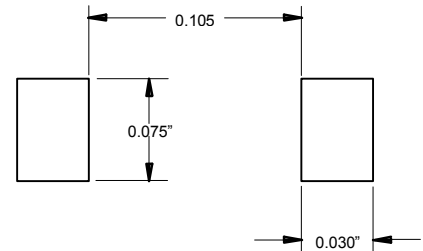
Notes:1. Lead in Glass Exemption Applied, see EU Directive Annex 5.

MiniMELF



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.130	.146	3.30	3.70	
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 _Z VOLTS	I _{ZT} for V _{ZT} and		r _{ZT}	r _{ZK} at I _{ZK}		REVERSE CURRENT I _R (Max) @ V _R			TK _{VZ}
	Nom	mA	V ⁽¹⁾	Ω	Ω	mA (Max)	μA	μA ⁽²⁾	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_{Znom}

(2) at T_j=150°C



TM

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.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

www.mccsemi.com

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Micro Commercial Components \(MCC\):](#)

[BZV55C10-TP](#) [BZV55C11-TP](#) [BZV55C12-TP](#) [BZV55C13-TP](#) [BZV55C15-TP](#) [BZV55C16-TP](#) [BZV55C18-TP](#)
[BZV55C20-TP](#) [BZV55C22-TP](#) [BZV55C24-TP](#) [BZV55C27-TP](#) [BZV55C30-TP](#) [BZV55C33-TP](#) [BZV55C3V3-TP](#)
[BZV55C3V6-TP](#) [BZV55C3V9-TP](#) [BZV55C4V3-TP](#) [BZV55C4V7-TP](#) [BZV55C5V1-TP](#) [BZV55C5V6-TP](#) [BZV55C6V2-](#)
[TP](#) [BZV55C6V8-TP](#) [BZV55C7V5-TP](#) [BZV55C8V2-TP](#) [BZV55C9V1-TP](#)