



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



Micro Commercial Components
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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 +150	°C
T_{STG}	Storage Temperature Range	-55 to +150	°C

Maximum Thermal Resistance

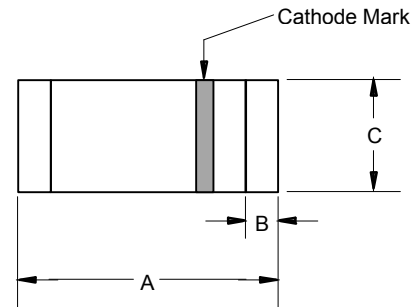
Symbol	Rating	Rating	Unit
R_{thJA}	Junction Ambient	500	K/W

Electrical Characteristics

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

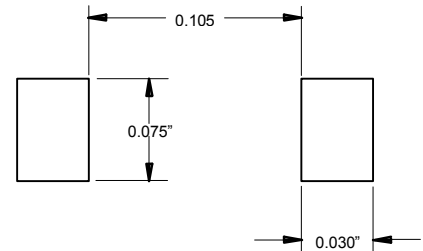
Notes:1. Lead in Glass Exemption Applied, see EU Directive Annex 5.

MiniMELF



DIM	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 _{ZJK} 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

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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