

**Obsolete**

**M.C.C.**

Micro Commercial Components



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

**BZX55C2V0  
THRU  
BZX55C100**

**500 mWatt  
Zener Diode  
2.0V to 100 Volts**

### Features

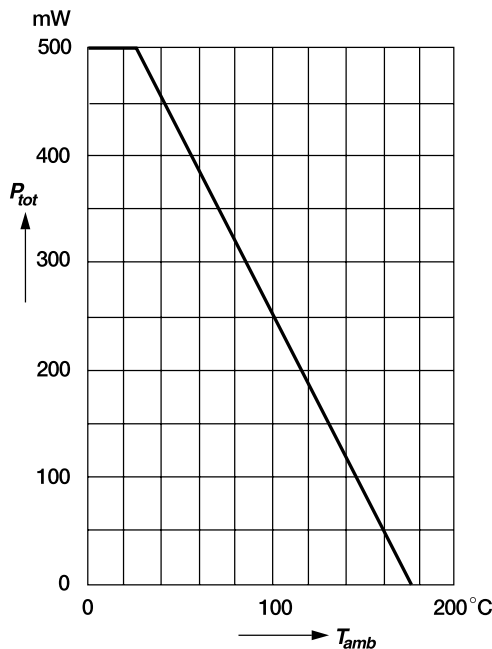
- Silicon Planar Power Zener Diodes
- Glass Package
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Moisture Sensitivity: Level 1

### Maximum Ratings

Symbol	Rating	Rating	Unit
$P_D$	Power dissipation	500 <sup>(2)</sup>	mW
$R_{JA}$	Thermal Resistance Junction to Ambient Air	350 <sup>(2)</sup>	°C/W
$T_J$	Junction Temperature	-65 to +175	°C
$T_{STG}$	Storage Temperature Range	-65 to +175	°C

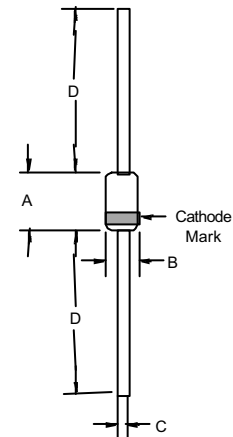
#### Admissible power dissipation versus ambient temperature

Valid provided that leads are kept ambient temperature at a distance of 8 mm from case.



- Note:
1. Lead in Glass Exemption Applied, see EU Directive Annex 5.
  2. Valid provided that leads at a distance of 3/8" from case are kept at ambient temperature.

**DO-35 GLASS**



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	---	.166	---	4.2	
B	---	.079	---	2.00	
C	---	.020	---	.52	
D	1.000	---	25.40	---	

[www.mccsemi.com](http://www.mccsemi.com)

# BZX55C2V0 thru BZX55C100



## ELECTRICAL CHARACTERISTICS @25°C Maximum V<sub>F</sub>=1.5V at I<sub>F</sub>=200mA

MCC PART NUMBER	ZENER VOLTAGE RANGE <sup>(1)</sup> at I <sub>ZT</sub>		TEST CURRENT I <sub>ZT</sub>	MAXIMUM DYNAMIC RESISTANCE		TEST CURRENT I <sub>ZK</sub>	EFFECTIVE TEMP. COEFFICIENT		REVERSE CURRENT I <sub>R</sub>	REVERSE VOLTAGE V <sub>R</sub>
	V <sub>Z</sub> (V)			@I <sub>ZT</sub>	@I <sub>ZK</sub>		%/°C			
	Min	Max	mA	OHMS	OHMS	mA	Min	Max	nA	V
BZX55C2V0	1.9	2.1	5	100	600	1	-0.09	-0.06	150000	1
BZX55C2V2	2.09	2.31	5	100	600	1	-0.09	-0.06	150000	1
BZX55C2V4	2.28	2.56	5	85	600	1	-0.09	-0.06	50000	1
BZX55C2V7	2.5	2.9	5	85	600	1	-0.09	-0.06	10000	1
BZX55C3V0	2.8	3.2	5	85	600	1	-0.08	-0.05	4000	1
BZX55C3V3	3.1	3.5	5	85	600	1	-0.08	-0.05	2000	1
BZX55C3V6	3.4	3.8	5	85	600	1	-0.08	-0.05	2000	1
BZX55C3V9	3.7	4.1	5	85	600	1	-0.08	-0.05	2000	1
BZX55C4V3	4	4.6	5	75	600	1	-0.06	-0.03	1000	1
BZX55C4V7	4.4	5	5	60	600	1	-0.05	0.02	500	1
BZX55C5V1	4.8	5.4	5	35	550	1	-0.02	0.02	100	1
BZX55C5V6	5.2	6	5	25	450	1	-0.05	0.05	100	1
BZX55C6V2	5.8	6.6	5	10	200	1	0.03	0.06	100	2
BZX55C6V8	6.4	7.2	5	8	150	1	0.03	0.07	100	3
BZX55C7V5	7	7.9	5	7	50	1	0.03	0.07	100	5
BZX55C8V2	7.7	8.7	5	7	50	1	0.03	0.08	100	6.2
BZX55C9V1	8.5	9.6	5	10	50	1	0.03	0.09	100	6.8
BZX55C10	9.4	10.6	5	15	70	1	0.03	0.11	100	7.5
BZX55C11	10.4	11.6	5	20	70	1	0.03	0.11	100	8.2
BZX55C12	11.4	12.7	5	20	90	1	0.03	0.11	100	9.1
BZX55C13	12.4	14.1	5	26	110	1	0.03	0.11	100	10
BZX55C15	13.8	15.6	5	30	110	1	0.03	0.11	100	11
BZX55C16	15.3	17.1	5	40	170	1	0.03	0.11	100	12
BZX55C18	16.8	19.1	5	40	170	1	0.03	0.11	100	13
BZX55C20	18.8	21.2	5	55	220	1	0.03	0.11	100	15
BZX55C22	20.8	23.3	5	55	220	1	0.03	0.11	100	16
BZX55C24	22.8	25.6	5	80	220	1	0.04	0.12	100	18
BZX55C27	25.1	28.9	5	80	220	1	0.04	0.12	100	20
BZX55C30	28	32	5	80	220	1	0.04	0.12	100	22
BZX55C33	31	35	5	80	220	1	0.04	0.12	100	24
BZX55C36	34	38	5	80	220	0.5	0.04	0.12	100	27
BZX55C39	37	41	2.5	90	500	0.5	0.04	0.12	100	30
BZX55C43	40	46	2.5	90	600	0.5	0.04	0.12	100	33
BZX55C47	44	50	2.5	110	700	0.5	0.04	0.12	100	36
BZX55C51	48	54	2.5	125	700	0.5	0.04	0.12	100	39
BZX55C56	52	60	2.5	135	1000	0.5	0.04	0.12	100	43
BZX55C62	58	66	2.5	150	1000	0.5	0.04	0.12	100	47
BZX55C68	64	72	2.5	200	1000	0.5	0.04	0.12	100	51
BZX55C75	70	79	2.5	250	1500	0.5	0.04	0.12	100	56
BZX55C82	77	87	2.5	300	2000	0.5	0.04	0.12	100	62
BZX55C91	85	96	2.5	450	5000	0.1	0.04	0.12	100	68
BZX55C100	94	106	2.5	450	5000	0.1	0.04	0.12	100	75

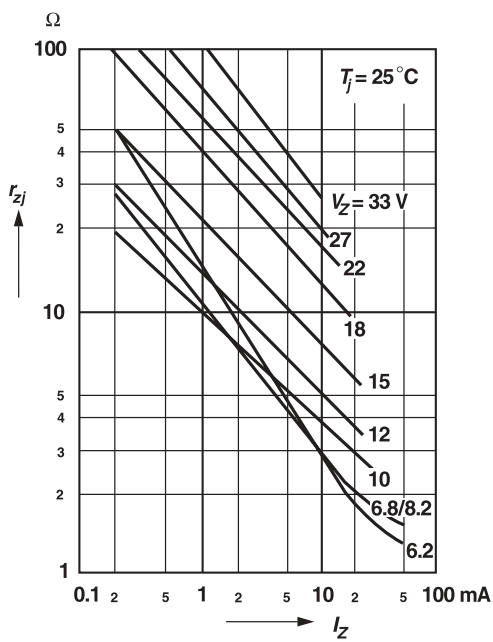
Note: (1) Measured with pulses tp=5.0ms, BZX55B-----±2% of V<sub>Znom</sub>, BZX55C-----±5% of V<sub>Znom</sub>

# BZX55C2V0 thru BZX55C100

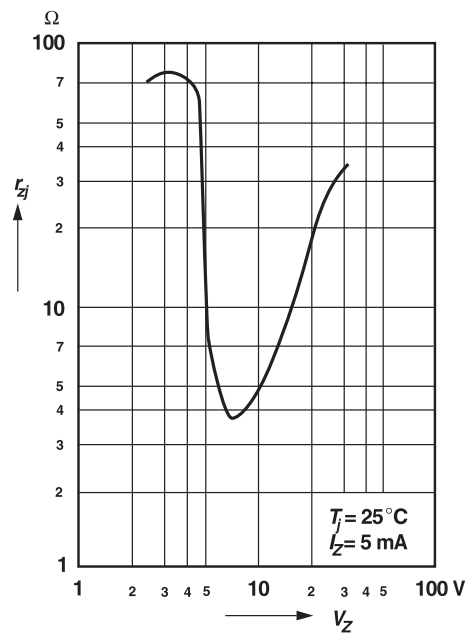


Micro Commercial Components

Dynamic resistance versus Zener current



Dynamic resistance versus Zener voltage





Micro Commercial Components

### Ordering Information :

Part Number-TP	Tape&Reel: 10Kpcs/Reel
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box
Part Number-BP	Bulk: 100Kpcs/Carton

**\*\*\*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.