



Micro Commercial Components

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BZX55C2V0 THRU BZX55C100

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

Features

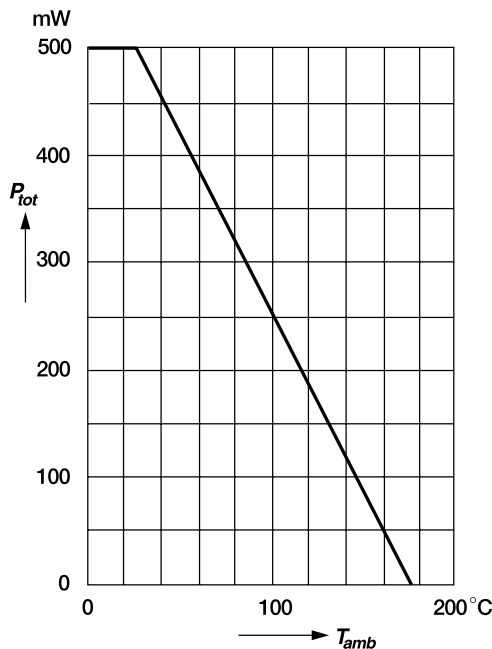
- Silicon Planar Power Zener Diodes
- Glass Package
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Moisture Sensitivity: Level 1 per J-STD-020C

Maximum Ratings

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

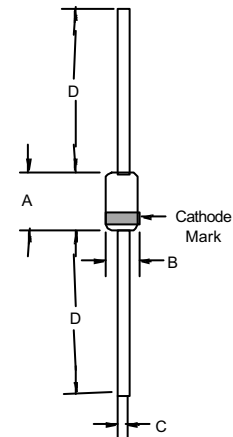
Admissible power dissipation versus ambient temperature

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	---	

BZX55C2V0 thru BZX55C100



ELECTRICAL CHARACTERISTICS @25°C Maximum V_F=1.5V at I_F=200mA

MCC PART NUMBER	ZENER VOLTAGE RANGE ⁽¹⁾ at I _{ZT}		TEST CURRENT I _{ZT}	MAXIMUM DYNAMIC RESISTANCE		TEST CURRENT I _{ZK}	EFFECTIVE TEMP. COEFFICIENT		REVERSE CURRENT I _R	REVERSE VOLTAGE V _R
	V _Z (V)			@I _{ZT}	@I _{ZK}		%/°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

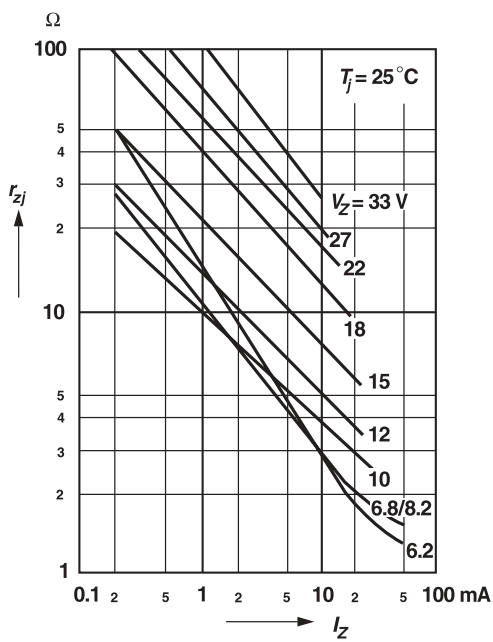
Note: (1) Measured with pulses tp=5.0ms, BZX55B-----±2% of V_{Znom}, BZX55C-----±5% of V_{Znom}

BZX55C2V0 thru BZX55C100

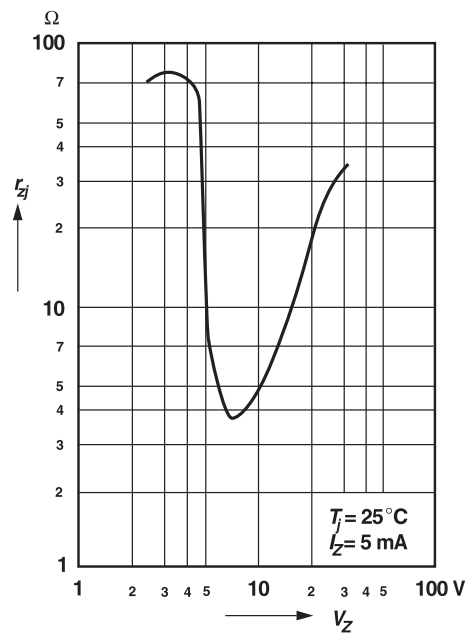


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Dynamic resistance versus Zener current



Dynamic resistance versus Zener voltage





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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel; 10Kpcs/Reel
(Part Number)-AP	Ammo Packing;5Kpcs/AmmoBox
(Part Number)-BP	Bulk;500pcs/Bag

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