

BZX84C2V4-BZX84C51

225mW Zener Diode 2.4 to 51Volts

Features

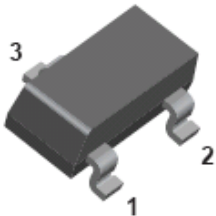
- 225 mW Rating on FR-4 or FR-5 Board
- Zener Breakdown Voltage Range 2.4 V to 75 V
- Package Designed for Optimal Automated Board Assembly
- Small Package Size for High Density Applications
- ESD Rating of

Applications

- Zener diode.
- Case : SOT-23

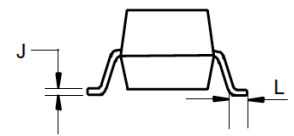
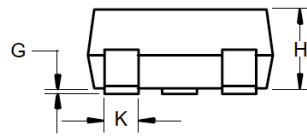
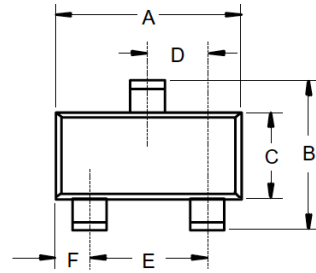
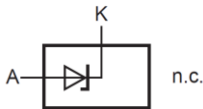
Packing & Order Information

3,000/Reel



**RoHS
COMPLIANT**

Graphic symbol



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.098	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	
L	.007	.020	.20	.50	

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

ABSOLUTE MAXIMUM RATING (Tc=25°C unless otherwise noted)

Symbol	Parameter	Test Conditions	Value	Unit
PD	Power Dissipation	On FR-5 Board (Note 1) @ Ta = 25 °C	225	mW
		Derated above 25 °C	1.8	mW/°C
RθJA	Thermal Resistance (Junction to Ambient)		556	°C/W

ABSOLUTE MAXIMUM RATING (Tc=25°C unless otherwise noted)

Symbol	Parameter	Test Conditions	Value	Unit
PD	Power Dissipation	on Alumina Substrate, Note 2) @ Ta = 25 °C	300	mW
		Derated above 25 °C	2.4	mW/°C
RθJA	Thermal Resistance (Junction to Ambient)		417	°C/W
TJ=TSTG	Junction and storage temperature range		-65~+150	°C

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ELECTRICAL CHARACTERISTICS (Rating at 25°C ambient temperature unless otherwise specified)

Type Number	Marking Code	Zener Voltage Range				Maximum Zener Impedance			Maximum Reverse Leakage Current	
		VZ@IZT			IZT	ZZT @IZT	ZZK@ IZK	IZK	IR	VR
		Nom(V)	Min(V)	Max(V)	mA	Ω		mA	(uA)	(V)
BZX84C2V4	Z11	2.4	2.2	2.6	5	100	600	1.0	50	1.0
BZX84C2V7	Z12	2.7	2.5	2.9	5	100	600	1.0	20	1.0
BZX84C3V0	Z13	3.0	2.8	3.2	5	95	600	1.0	10	1.0
BZX84C3V3	Z14	3.3	3.1	3.5	5	95	600	1.0	5.0	1.0
BZX84C3V6	Z15	3.6	3.4	3.8	5	90	600	1.0	5.0	1.0
BZX84C3V9	Z16	3.9	3.7	4.1	5	90	600	1.0	3.0	1.0
BZX84C4V3	Z17	4.3	4.0	4.6	5	90	600	1.0	3.0	1.0
BZX84C4V7	Z1	4.7	4.4	5.0	5	80	500	1.0	3.0	2.0
BZX84C5V1	Z2	5.1	4.8	5.4	5	60	480	1.0	2.0	2.0
BZX84C5V6	Z3	5.6	5.2	6.0	5	40	400	1.0	1.0	2.0
BZX84C6V2	Z4	6.2	5.8	6.6	5	10	150	1.0	3.0	4.0
BZX84C6V8	Z5	6.8	6.4	7.2	5	15	80	1.0	2.0	4.0
BZX84C7V5	Z6	7.5	7.0	7.9	5	15	80	1.0	1.0	5.0
BZX84C8V2	Z7	8.2	7.7	8.7	5	15	80	1.0	0.7	5.0
BZX84C9V1	Z8	9.1	8.5	9.6	5	15	100	1.0	0.5	6.0
BZX84C10	Z9	10	9.4	10.6	5	20	150	1.0	0.2	7.0
BZX84C11	Y1	11	10.4	11.6	5	20	150	1.0	0.1	8.0
BZX84C12	Y2	12	11.4	12.7	5	20	150	1.0	0.1	8.0
BZX84C13	Y3	13	12.4	14.1	5	25	170	1.0	0.1	8.0
BZX84C15	Y4	15	13.8	15.6	5	30	200	1.0	0.1	10.5
BZX84C16	Y5	16	15.3	17.1	5	40	200	1.0	0.1	11.2
BZX84C18	Y6	18	16.8	19.1	5	45	225	1.0	0.1	12.6
BZX84C20	Y7	20	18	21.2	5	55	225	1.0	0.1	14.0
BZX84C22	Y8	22	20.8	23.3	5	55	250	1.0	0.1	15.4
BZX84C24	Y9	24	22.8	25.6	5	70	250	1.0	0.1	16.8
BZX84C27	Y10	27	25.1	28.9	5	80	300	1.0	0.1	18.9
BZX84C30	Y11	30	28.0	32.0	5	80	300	1.0	0.1	21.0
BZX84C33	Y12	33	31.0	35.0	5	80	325	1.0	0.1	23.1
BZX84C36	Y13	36	34.0	38.0	5	90	350	1.0	0.1	25.2
BZX84C39	Y14	39	37.0	41.0	5	130	350	1.0	0.1	27.3

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Type Number	Marking Code	Zener Voltage Range				Maximum Zener Impedance			Maximum Reverse Current	
		VZ@IZT			IZT	ZZT @IZT	ZZK@ IZK	IZK	IR	VR
		Nom(V)	Min(V)	Max(V)	mA	Ω		mA	(uA)	(V)
BZX84C43	Y15	43	40.0	46.0	5	375	700	1.0	0.1	30.1
BZX84C47	Y16	47	44.0	50.0	5	375	750	1.0	0.1	32.9
BZX84C51	Y17	51	48.0	54.0	5	400	750	1.0	0.1	35.7

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