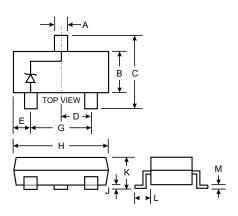


BZX84C2V4 **THRU BZX84C51** 

#### **Features**

- Planar Die Construction
- 350mW Power Dissipation
- Zener Voltages from 2.4V 51V
- Ideally Suited for Automated Assembly Processes

SOT-23						
Dim	Min	Max				
A	0. 37	0. 51				
В	1. 19	1. 40				
С	2. 10	2. 50				
D	0.89	1.05				
Е	0. 45	0. 61				
G	1. 78	2.05				
Н	2.65	3. 05				
J	0. 013	0. 15				
K	0.89	1. 10				
L	0. 45	0. 61				
M	0. 076	0. 178				
All Dimensions in mm						



# 

Characteris	tic	Symbol	Value	Unit	
Forward Voltage	@ I <sub>F</sub> = 10mA	V <sub>F</sub>	0.9	V	
Power Dissipation (Note 1)		P <sub>d</sub>	350	mW	
Thermal Resistance, Junction to	o Ambient Air (Note 1)	$R_{ heta \mathtt{J} \mathtt{A}}$	357	K/W	
Operating and Storage Tempera	ature Range	$T_{j},T_{STG}$	-65 to +150	°C	

1. Valid provided that device terminals are kept at ambient temperature.

2. Tested with pulses,  $300\mu$ s pulse width, period = 5ms.

2016-07 3. f = 1KHz.

REV:02

## Electrical Characteristics $@T_A = 25^{\circ}C$ unless otherwise specified

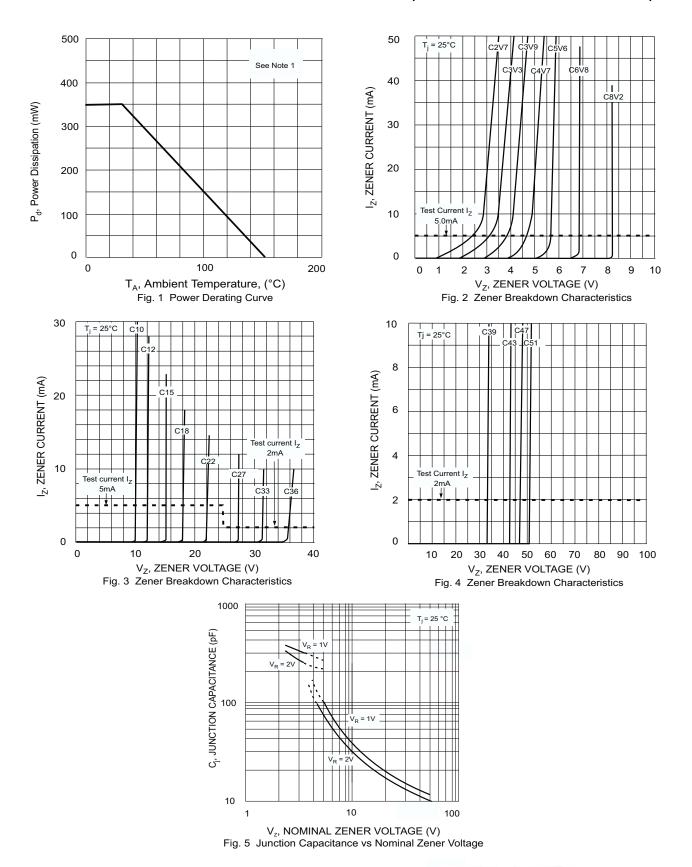
Type Marking Number Code		Zener Voltage Range (Note 2)			Maximum Zener Impedance (Note 3)		Maximum Reverse Current		Typical Temperature Coefficient @ Iz⊤ mV/°C			
	Code	Vz @ IzT		I <sub>ZT</sub>	Z <sub>ZT</sub> @	Z <sub>ZK</sub> @ I <sub>ZK</sub>		I <sub>R</sub>	V <sub>R</sub>	Min	Max	
		Nom (V)	Min (V)	Max (V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	1	l l l l l l l l l l l l l l l l l l l
BZX84C2V4	Z11/KZB	2. 4	2. 2	2.6	5. 0	100	600	1.0	50	1.0	-3. 5	0
BZX84C2V7	Z12/KZC	2. 7	2.5	2. 9	5. 0	100	600	1.0	20	1.0	-3. 5	0
BZX84C3V0	Z13/KZD	3. 0	2.8	3. 2	5. 0	95	600	1.0	10	1.0	-3. 5	0
BZX84C3V3	Z14/KZE	3. 3	3. 1	3. 5	5. 0	95	600	1.0	5. 0	1.0	-3. 5	0
BZX84C3V6	Z15/KZF	3.6	3. 4	3.8	5. 0	90	600	1.0	5. 0	1.0	-3. 5	0
BZX84C3V9	Z16/KZG	3. 9	3. 7	4. 1	5. 0	90	600	1.0	3.0	1.0	-3. 5	0
BZX84C4V3	Z17/KZH	4.3	4.0	4.6	5. 0	90	600	1.0	3. 0	1.0	-3. 5	0
BZX84C4V7	Z1/KZ1	4. 7	4. 4	5. 0	5. 0	80	500	1.0	3.0	2.0	-3.5	0. 2
BZX84C5V1	Z2/KZ2	5. 1	4.8	5. 4	5. 0	60	480	1.0	2.0	2.0	-2.7	1. 2
BZX84C5V6	Z3/KZ3	5. 6	5. 2	6. 0	5. 0	40	400	1.0	1.0	2.0	-2.0	2. 5
BZX84C6V2	Z4/KZ4	6. 2	5.8	6. 6	5. 0	10	150	1.0	3.0	4.0	0.4	3. 7
BZX84C6V8	Z5/KZ5	6.8	6. 4	7. 2	5. 0	15	80	1.0	2. 0	4. 0	1.2	4. 5
BZX84C7V5	Z6/KZ6	7. 5	7. 0	7. 9	5. 0	15	80	1.0	1. 0	5. 0	2. 5	5. 3
BZX84C8V2	Z7/KZ7	8. 2	7. 7	8. 7	5. 0	15	80	1.0	0. 7	5. 0	3. 2	6. 2
BZX84C9V1	Z8/KZ8	9. 1	8. 5	9.6	5. 0	15	100	1.0	0.5	6. 0	3.8	7. 0
BZX84C10	Z9/KZ9/8Q	10	9. 4	10.6	5. 0	20	150	1.0	0. 2	7. 0	4. 5	8.0
BZX84C11	Y1/KY1	11	10.4	11.6	5. 0	20	150	1.0	0.1	8.0	5. 4	9. 0
BZX84C12	Y2/KY2	12	11.4	12. 7	5. 0	25	150	1.0	0. 1	8.0	6.0	10.0
BZX84C13	Y3/KY3	13	12. 4	14. 1	5. 0	30	170	1.0	0.1	8.0	7.0	11.0
BZX84C15	Y4/KY4	15	13.8	15. 6	5. 0	30	200	1. 0	0. 1	10. 5	9. 2	13. 0
BZX84C16	Y5/KY5	16	15. 3	17. 1	5. 0	40	200	1.0	0. 1	11. 2	10. 4	14.0
BZX84C18	Y6/KY6	18	16.8	19. 1	5. 0	45	225	1. 0	0. 1	12. 6	12. 4	16. 0
BZX84C20	Y7/KY7	20	18.8	21. 2	5. 0	55	225	1.0	0. 1	14. 0	14. 4	18.0
BZX84C22	Y8/KY8	22	20.8	23. 3	5. 0	55	250	1.0	0.1	15. 4	16. 4	20.0
BZX84C24	Y9/KY9	24	22.8	25. 6	5. 0	70	250	1.0	0. 1	16. 8	18. 4	22. 0
BZX84C27	Y10/KYA	27	25. 1	28. 9	2. 0	80	300	0. 5	0. 1	18. 9	21.4	25. 3
BZX84C30	Y11/KYB	30	28. 0	32.0	2. 0	80	300	0. 5	0. 1	21.0	24. 4	29. 4
BZX84C33	Y12/KYC	33	31.0	35. 0	2. 0	80	325	0. 5	0. 1	23. 1	27. 4	33. 4
BZX84C36	Y13/KYD	36	34. 0	38. 0	2. 0	90	350	0. 5	0. 1	25. 2	30. 4	37. 4
BZX84C39	Y14/KYE	39	37. 0	41.0	2. 0	130	350	0. 5	0. 1	27. 3	33. 4	41. 2
BZX84C43	Y15/KYF	43	40.0	46. 0	2.0	150	375	0.5	0. 1	30. 1	10.0	12.0
BZX84C47	Y16/KYG	47	44. 0	50.0	2. 0	170	375	0.5	0. 1	32. 9	10. 0	12. 0
BZX84C51	Y17/KYH	51	48. 0	54. 0	2.0	180	400	0. 5	0.1	35. 7	10.0	12.0

- Notes: 1. Valid provided that device terminals are kept at ambient temperature. 2. Tested with pulses, 300µs pulse width, period = 5ms.

  - 3. f = 1KHz.



### RATING AND CHARACTERISTICS CURVES (BZX84C2V4 THRU BZX84C51)





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BZX84C16 BZX84C6V8 BZX84C5V6 BZX84C22 BZX84C12 BZX84C36 BZX84C13 BZX84C3V3 BZX84C10

BZX84C47 BZX84C3V6 BZX84C39 BZX84C7V5 BZX84C11 BZX84C30 BZX84C4V3 BZX84C5V1 BZX84C33

BZX84C9V1 BZX84C3V0 BZX84C18 BZX84C15 BZX84C27 BZX84C20 BZX84C3V9 BZX84C4V7 BZX84C6V2

BZX84C24 BZX84C8V2