

Green Products

BZX84C2V4-BZX84C43 ZENER DIODE

Features:

- **Planar Die Construction**
- 350mW Power Dissipation
- 2.4V- 43V Nominal Zener Voltage
- 5% Standard Vz Tolerance
- **Designed for Surface Mount Application**
- Plastic Material UL Recognition Flammability Classification 94V-O

0, 25

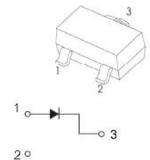
- This is a Pb Free Device
- All SMC Parts are Traceable to the Wafer Lot
- Additional testing can be offered upon request

Mechanical Data:

Case: SOT-23, Molded Plastic

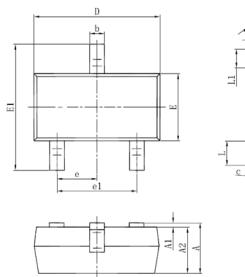
Terminals: Solderable per MIL-STD-750, Method 2026

Weight: 0.0084grams(approx.)



8°

Mechanical Dimensions: In mm/Inches



- 0.25							
	Considerati	Dimensions	In Millimeters	Dimensions In Inches			
	Symbol	Min.	Max.	Min.	Max.		
'	Α	0.900	1.150	0.035	0.045		
	A1	0.000	0.100	0.000	0.004		
	A2	0.900	1.050	0.035	0.041		
	b	0.300	0.500	0.012	0.020		
	С	0.080	0.150	0.003	0.006		
	D	2.800	3.000	0.110	0.118		
C	E	1.200	1.400	0.047	0.055		
	E1	2.250	2.550	0.089	0.100		
	е	0.950	TYP.	0.037	TYP.		
	e1	1.800	2.000	0.071	0.079		
	L	0.550	REF.	0.022 REF.			
	L1	0.300	0.500	0.012	0.020		

8°

SOT-23

Note: If date code is before 2016 year, please contact with factory about marking.

- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •



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Ordering Information

Device	Package	Shipping
BZX84C2V4-BZX84C75	SOT-23 (Pb-Free)	3000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings @T_A=25°C unless otherwise specified

Parameter	Symbol	Value	Unit
Maximum Power Dissipation(Note 1) at 25°C	Po	350	mW
Typical Thermal Resistance, Junction to Ambient(Note 2)	Reja	417	°C/W
Operating Junction and Storage Temperature Range	Т _Ј ,Тѕтс	-55 to 150	°C

Notes: 1. Mounted on 50mm×16mm FR-4 board.

2. Mounted on minimum pad layout (1cm×1cm FR-4 board).



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Electrical Characteristics @T_A=25°C unless otherwise specified

		ZenerVoltage Range (Note 2)				Maximum Zener			Maximum		Temperature	
									Reverse		Coefficent of	
Type		Zer	iervuitage R	ange (Note 2	:)	Impedance			Current		Zener	voltage
Number	Code					(Note 3)					@ l _{zt} =5mA	
		Vz@lzt			I _{ZT}	Zzt@lzt Zzk@lzk lzk			I _R ∨ _R		mV/°C	
		Nom(V)	Min(∀)	Max(V)	(mA)	(Ω	!)	(mA)	(µA)	(V)	Min	Max
BZX84C2V4	Z11	2.4	2.20	2.60	5	100	600	1.0	50	1.0	-3.5	0
BZX84C2V7	Z12	2.7	2.5	2.9	5	100	600	1.0	20	1.0	-3.5	0
BZX84C3V0	Z13	3.0	2.8	3.2	5	95	600	1.0	10	1.0	-3.5	0
BZX84C3V3	Z14	3.3	3.1	3.5	5	95	600	1.0	5	1.0	-3.5	0
BZX84C3V6	Z15	3.6	3.4	3.8	5	90	600	1.0	5	1.0	-3.5	0
BZX84C3V9	Z16	3.9	3.7	4.1	5	90	600	1.0	3	1.0	-3.5	0
BZX84C4V3	Z17	4.3	4.0	4.6	5	90	600	1.0	3	1.0	-3.5	0
BZX84C4V7	Z1	4.7	4.4	5.0	5	80	500	1.0	3	2.0	-3.5	0.2
BZX84C5V1	Z2	5.1	4.8	5.4	5	60	480	1.0	2	2.0	-2.7	1.2
BZX84C5V6	Z3	5.6	5.2	6.0	5	40	400	1.0	1	2.0	-2.0	2.5
BZX84C6V2	Z4	6.2	5.8	6.6	5	10	150	1.0	3	4.0	0.4	3.7
BZX84C6V8	Z5	6.8	6.4	7.2	5	15	80	1.0	2	4.0	1.2	4.5
BZX84C7V5	Z6	7.5	7.0	7.9	5	15	80	1.0	1	5.0	2.5	5.3
BZX84C8V2	Z7	8.2	7.7	8.7	5	15	80	1.0	0.7	5.0	3.2	6.2
BZX84C9V1	Z8	9.1	8.5	9.6	5	15	100	1.0	0.5	6.0	3.8	7.0
BZX84C10	Z9	10	9.4	10.6	5	20	150	1.0	0.2	7.0	4.5	8.0
BZX84C11	Y1•	11	10.4	11.6	5	20	150	1.0	0.1	8.0	5.4	9.0
BZX84C12	Y2•	12	11.4	12.7	5	25	150	1.0	0.1	8.0	6.0	10.0
BZX84C13	Y3	13	12.4	14.1	5	30	170	1.0	0.1	8.0	7.0	11.0
BZX84C15	Y4	15	13.8	15.6	5	30	200	1.0	0.1	10.5	9.2	13.0
BZX84C16	Y5	16	15.3	17.1	5	40	200	1.0	0.1	11.2	10.4	14.0
BZX84C18	Y6•	18	16.8	19.1	5	45	225	1.0	0.1	12.6	12.4	16.0
BZX84C20	Y7	20	18.8	21.2	5	55	225	1.0	0.1	14.0	14.4	18.0
BZX84C22	Y8	22	20.8	23.3	5	55	250	1.0	0.1	15.4	16.4	20.0
BZX84C24	Y9	24	22.8	25.6	5	70	250	1.0	0.1	16.8	18.4	22.0
BZX84C27	Y10	27	25.1	28.9	2	80	300	0.5	0.1	18.9	21.4	25.3
BZX84C30	Y11•	30	28.0	32.0	2	80	300	0.5	0.1	21.0	24.4	29.4
BZX84C33	Y12	33	31.0	35.0	2	80	325	0.5	0.1	23.1	27.4	33.4
BZX84C36	Y13	36	34.0	38.0	2	90	350	0.5	0.1	25.2	30.4	37.4
BZX84C39	Y14	39	37.0	41.0	2	130	350	0.5	0.1	27.3	33.4	41.2
BZX84C43	Y15	43	40.0	46.0	2	100	700	1	0.1	32	10	12

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

^{2.} Tested with pulses, period=5ms, pulse width =300µs.

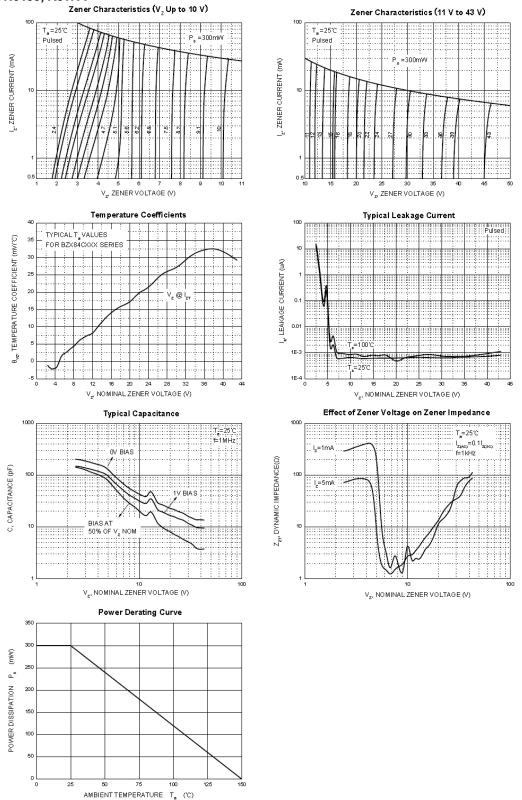
^{3.} f = 1kHz.

[•] China - Germany - Korea - Singapore - United States •

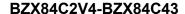
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