



表面贴装稳压二极管

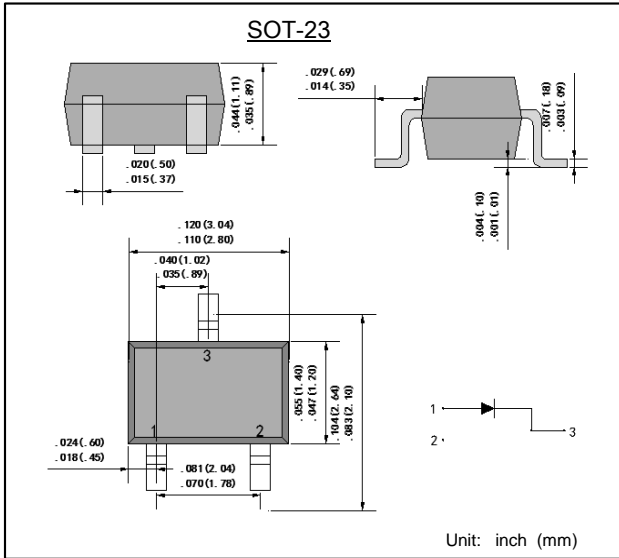
功率 300 mW

稳压电压范围 2.4 - 43 V

Surface Mount Zener Diode

Power Dissipation 300 mW

Zener Voltage Range 2.4 - 43 V



特征 Features

- 齐纳击穿阻抗低; Low Zener Impedance
- 最大功率耗散 300mW Power Dissipation of 300mW
- 高稳定性和可靠性 High Stability and High Reliability

机械数据 Mechanical Data

- 封装: SOT-23 塑料封装 Case: SOT-23 Molded plastic
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 环氧树脂UL 易燃等级Epoxy UL: 94V-0
- 安装位置: 任意 Mounting Position: Any

极限值和温度特性 TA = 25°C 除非另有规定。

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

参数 Parameter	符号 Symbols	数值	单位
		Value	Unit
功率消耗 Power Dissipation	P_D	300	mW
典型热阻 Type Thermal Resistance (Note 1)	$R_{\theta JA}$	417	°C/W
工作结温和存储温度 Operating Junction and Storage Temperature Range	T_J, T_{STG}	-65 --- +150	°C

备注 Note:

- 1) 安装在覆铜面积5.0mm*5.0mm的PCB板上, 从PN结到周围环境的热阻。
- 1) Thermal resistance from junction to ambient, PCB mounted with 5.0mm*5.0mm Copper Pad Areas.

电特性 TA = 25°C 除非另有规定。

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

参数 Parameter	符号 Symbols	数值	单位
		Value	Unit
正向电压 Forward Voltage	V_{FM}	0.9	V



电特性 TA = 25°C 除非另有规定。

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

产品型号 Part No.	印字 Marking	Zener Voltage Range				Maximum Zener Impedance			Maximum Reverse Current		Temperature coefficient of Zener voltage @I _{ZT} = 5mA mV/°C	
		V _Z @I _{ZT}			I _{ZT} (mA)	Z _{ZT} @I _{ZT}	Z _{ZK} @I _{ZK}	I _{ZK}	I _R	V _R	Min	Max
		Nom.(V)	Min.(V)	Max.(V)		Ω	mA	μA	V			
BZX84C2V4	Z11	2.4	2.2	2.6	5.0	100	600	1.0	50	1.0	-3.5	0
BZX84C2V7	Z12	2.7	2.5	2.9	5.0	100	600	1.0	20	1.0	-3.5	0
BZX84C3V0	Z13	3.0	2.8	3.2	5.0	95	600	1.0	10	1.0	-3.5	0
BZX84C3V3	Z14	3.3	3.1	3.5	5.0	95	600	1.0	5	1.0	-3.5	0
BZX84C3V6	Z15	3.6	3.4	3.8	5.0	90	600	1.0	5	1.0	-3.5	0
BZX84C3V9	Z16	3.9	3.7	4.1	5.0	90	600	1.0	3	1.0	-3.5	0
BZX84C4V3	Z17	4.3	4.0	4.6	5.0	90	600	1.0	3	1.0	-3.5	0
BZX84C4V7	Z1	4.7	4.4	5.0	5.0	80	500	1.0	3	2.0	-3.5	0.2
BZX84C5V1	Z2	5.1	4.8	5.4	5.0	60	480	1.0	2	2.0	-2.7	1.2
BZX84C5V6	Z3	5.6	5.2	6.0	5.0	40	400	1.0	1	2.0	-2.0	2.5
BZX84C6V2	Z4	6.2	5.8	6.6	5.0	10	150	1.0	3	4.0	0.4	3.7
BZX84C6V8	Z5	6.8	6.4	7.2	5.0	15	80	1.0	2	4.0	1.2	4.5
BZX84C7V5	Z6	7.5	7.0	7.9	5.0	15	80	1.0	1	5.0	2.5	5.3
BZX84C8V2	Z7	8.2	7.7	8.7	5.0	15	80	1.0	0.7	5.0	3.2	6.2
BZX84C9V1	Z8	9.1	8.5	9.6	5.0	15	100	1.0	0.5	6.0	3.8	7
BZX84C10	Z9	10.0	9.4	10.6	5.0	20	150	1.0	0.2	7.0	4.5	8
BZX84C11	Y1 •	11.0	10.4	11.6	5.0	20	150	1.0	0.1	8.0	5.4	9
BZX84C12	Y2 •	12.0	11.4	12.7	5.0	25	150	1.0	0.1	8.0	6.0	10
BZX84C13	Y3	13.0	12.4	14.1	5.0	30	170	1.0	0.1	8.0	7.0	11
BZX84C15	Y4	15.0	13.8	15.6	5.0	30	200	1.0	0.1	10.5	9.2	13
BZX84C16	Y5	16.0	15.3	17.1	5.0	40	200	1.0	0.1	11.2	10.4	14
BZX84C18	Y6 •	18.0	16.8	19.1	5.0	45	225	1.0	0.1	12.6	12.4	16
BZX84C20	Y7	20.0	18.8	21.2	5.0	55	225	1.0	0.1	14.0	14.4	18
BZX84C22	Y8	22.0	20.8	23.3	5.0	55	250	1.0	0.1	15.4	16.4	20
BZX84C24	Y9	24.0	22.8	25.6	5.0	70	250	1.0	0.1	16.8	18.4	22
BZX84C27	Y10	27.0	25.1	28.9	2.0	80	300	0.5	0.1	18.9	21.4	25.3
BZX84C30	Y11 •	30.0	28.0	32.0	2.0	80	300	0.5	0.1	21.0	24.4	29.4
BZX84C33	Y12	33.0	31.0	35.0	2.0	80	325	0.5	0.1	23.1	27.4	33.4
BZX84C36	Y13	36.0	34.0	38.0	2.0	90	350	0.5	0.1	25.2	30.4	37.4
BZX84C39	Y14	39.0	37.0	41.0	2.0	130	350	0.5	0.1	27.3	33.4	41.2
BZX84C43	Y15	43.0	40.0	46.0	2.0	100	700	1.0	0.1	32.0	10.0	12