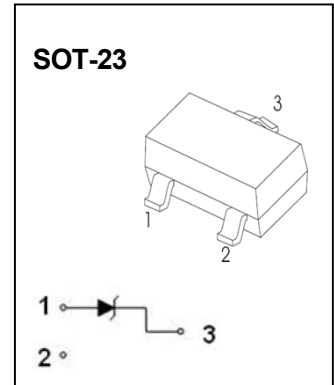


SOT-23 Plastic-Encapsulate Diodes

BZX84B2V4 THRU BZX84B39 ZENER DIODES

FEATURES

- ◆ Planar Die Construction
- ◆ 300mW Power Dissipation
- ◆ Zener Voltages from 5.1V - 20V
- ◆ Ultra-Small Surface Mount Package Power Dissipation



MAXMUM RATINGS($T_a=25^{\circ}\text{C}$ unless otherwise specified)

Characteristic	Symbol	Value	Unit
Forward Voltage (Note 2) @ $I_F = 10\text{mA}$	V_F	0.9	V
Power Dissipation(Note 1)	P_d	300	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	417	$^{\circ}\text{C/W}$
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-55~+150	$^{\circ}\text{C}$

Electrical Characteristics (T_A=25°C unless otherwise specified)

PART NUMBER	MARKING CODE	ZENER VOLTAGE RANGE			TEST CURRENT		REVERSE LEAKAGE CURRENT		DYNAMIC RESISTANCE f = 1 kHz	
		V _Z at I _{ZT1}			I _{ZT1}	I _{ZT2}	I _R at V _R		Z _Z at I _{ZT1}	Z _{ZK} at I _{ZT2}
		V			mA		μA	V		
		MIN.	NOM.	MAX.					MAX.	MAX.
BZX84B2V4	2Z11	2.35	2.4	2.45	5	1	50	1	100	275
BZX84B2V7	2Z12	2.65	2.7	2.75	5	1	20	1	100	600
BZX84B3V0	2Z13	2.94	3.0	3.06	5	1	10	1	95	600
BZX84B3V3	2Z14	3.23	3.3	3.37	5	1	5	1	95	600
BZX84B3V6	2Z15	3.53	3.6	3.67	5	1	5	1	90	600
BZX84B3V9	2Z16	3.82	3.9	3.98	5	1	3	1	90	600
BZX84B4V3	2Z17	4.21	4.3	4.39	5	1	3	1	90	600
BZX84B4V7	2Z1	4.61	4.7	4.79	5	1	3	2	80	500
BZX84B5V1	2Z2	5.0	5.1	5.2	5	1	2	2	60	480
BZX84B5V6	2Z3	5.49	5.6	5.71	5	1	1	2	40	400
BZX84B6V2	2Z4	6.08	6.2	6.32	5	1	3	4	10	150
BZX84B6V8	2Z5	6.66	6.8	6.94	5	1	2	4	15	80
BZX84B7V5	2Z6	7.35	7.5	7.65	5	1	1	5	15	80
BZX84B8V2	2Z7	8.04	8.2	8.36	5	1	0.7	5	15	80
BZX84B9V1	2Z8	8.92	9.1	9.28	5	1	0.5	6	15	100
BZX84B10	2Z9	9.8	10	10.2	5	1	0.2	7	20	150
BZX84B11	2Y1	10.8	11	11.2	5	1	0.1	8	20	150
BZX84B12	2Y2	11.8	12	12.2	5	1	0.1	8	25	150
BZX84B13	2Y3	12.7	13	13.3	5	1	0.1	8	30	170
BZX84B15	2Y4	14.7	15	15.3	5	1	0.05	10.5	30	200
BZX84B16	2Y5	15.7	16	16.3	5	1	0.05	11.2	40	200
BZX84B18	2Y6	17.6	18	18.4	5	1	0.05	12.6	45	225
BZX84B20	2Y7	19.6	20	20.4	5	1	0.05	14	55	225
BZX84B22	2Y8	21.6	22	22.4	5	1	0.05	15.4	55	250
BZX84B24	2Y9	23.5	24	24.5	5	1	0.05	16.8	70	250
BZX84B27	2Y10	26.5	27	27.5	2	0.5	0.05	18.9	80	300
BZX84B30	2Y11	29.4	30	30.6	2	0.5	0.05	21	80	300
BZX84B33	2Y12	32.3	33	33.7	2	0.5	0.05	23.1	80	325
BZX84B36	2Y13	35.3	36	36.7	2	0.5	0.05	25.2	90	350
BZX84B39	2Y14	38.2	39	39.8	2	0.5	0.05	27.3	130	350

Notes:

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

ELECTRICAL CHARACTERISTICS CURVE

