/ Descriptions

SOT-23

Zener Diode in a SOT-23 Plastic Package.

/ Features

300mW

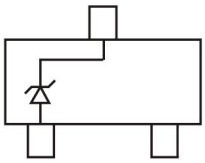
300mW power dissipation, Ideally Suited for Automated Assembly, HF Product.

/ Applications

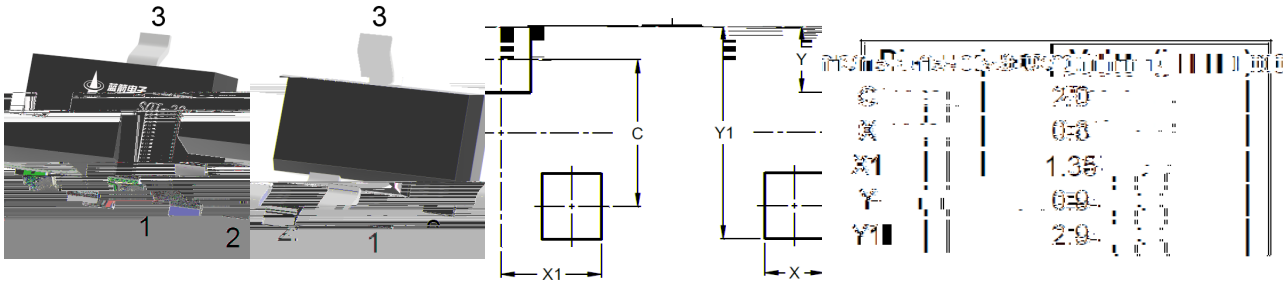
2.4V-39V

2.4V to 39V wide zener voltage range applications.

/ Equivalent Circuit



/ Pinning



PIN: See Equivalent Circuit.

/ Marking

See Electrical Characteristics.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Forward Voltage(I_F=10mA)	V_F	0.9	V
Power Dissipation(Note 1)	P_D	300	mW
Power Dissipation(Note 4)	P_D	350	mW
Thermal Resistance, Junction to Ambient(Note 1)	$R_{\theta JA}$	417	/W
Thermal Resistance, Junction to Ambient(Note 4)	$R_{\theta JA}$	357	/W
Junction and Storage Temperature Range	T_j,T_{stg}	-65 150	

/ Electrical Characteristics(Ta=25)

Type Number	Mark-ing Code	Zener Voltage Range				Maximum Zener Impedance			Maximum Reverse Current	
		V_z @I_{ZT}			I_{ZT}	Z_{ZT} @I_{ZT}	Z_{ZK} @I_{ZK}	I_{ZK}	I_R	@V_R
		Nom (V)	Min (V)	Max (V)	mA	Ω		mA	μA	V
BZX84B2V4	HBV	2.4	2.35	2.45	5	94	564	1	45	1
BZX84B2V7	CVH	2.7	2.65	2.75	5	94	564	1	18	1
BZX84B3V0	DVH	3.0	2.94	3.06	5	89	564	1	9	1
BZX84B3V3	HEV	3.3	3.23	3.37	5	89	564	1	4.5	1
BZX84B3V6	HFV	3.6	3.53	3.67	5	84	564	1	4.5	1
BZX84B3V9	HGV	3.9	3.82	3.96	5	84	564	1	2.7	1
BZX84B4V3	HHV	4.3	4.21	4.39	5	84	564	1	2.7	1
BZX84B4V7	H1V	4.7	4.61	4.79	5	75	564	1	2.7	2
BZX84B5V1	H2V	5.1	5.00	5.20	5	56	470	1	1.8	2
BZX84B5V6	H3V	5.6	5.49	5.71	5	27	451	1	0.9	2
BZX84B6V2	H4V	6.2	6.08	6.32	5	9	376	1	2.7	4
BZX84B6V8	H5V	6.8	6.66	6.94	5	14	141	1	1.8	4
BZX84B7V5	H6V	7.5	7.35	7.65	5	14	75	1	0.9	5
BZX84B8V2	H7V	8.2	8.04	8.36	5	14	75	1	0.63	5
BZX84B9V1	H8V	9.1	8.92	9.28	5	14	94	1	0.45	6
BZX84B10	H9V	10	9.80	10.20	5	18	141	1	0.18	7
BZX84B11	H1U	11	10.78	11.22	5	18	141	1	0.09	8

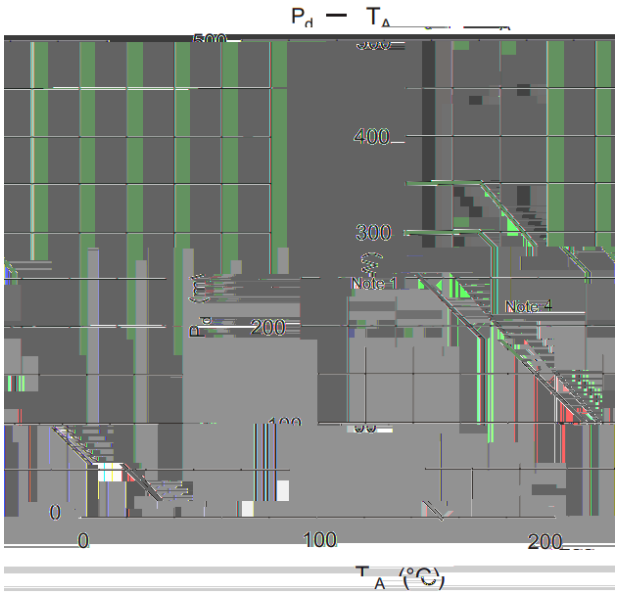
/ Electrical Characteristics(Ta=25)

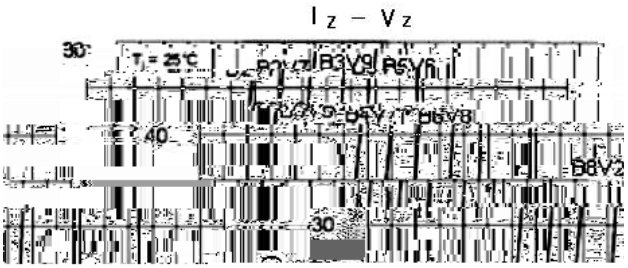
Type Number	Marking Code	Zener Voltage Range (Note 2)		Maximum Zener Impedance (Note 3)			Maximum Reverse Current	
		V_z @I_{ZT}	I_{ZT}	Z_{ZT} @I_{ZT}	Z_{ZK} @I_{ZK}	I_{ZK}	I_R	@V_R

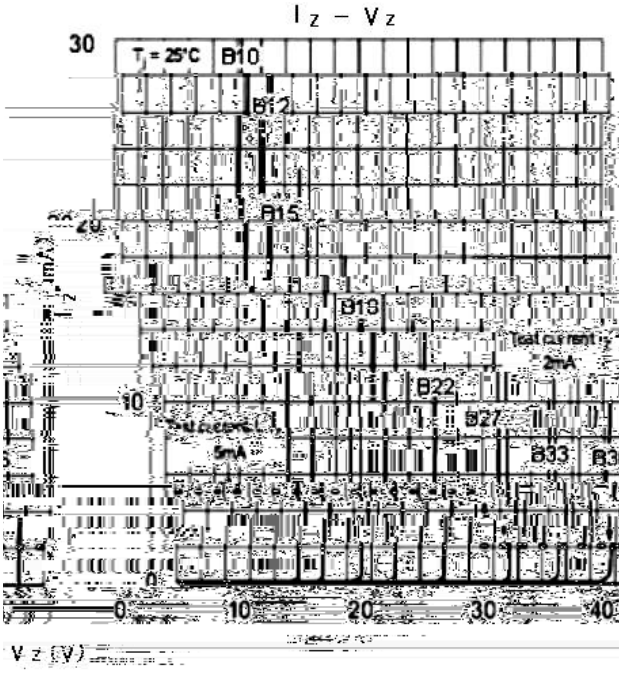
Notes:

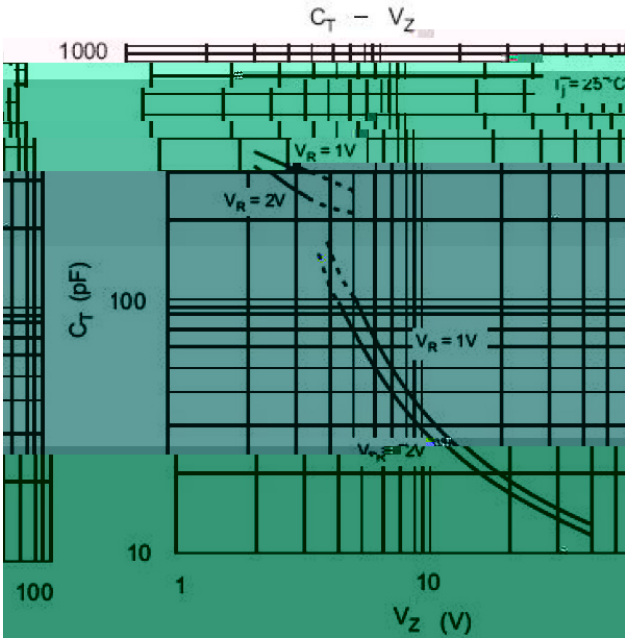
1. Device mounted on FR-4 PC board with recommended pad layout.
2. Short duration test pulse used to minimize self-heating effect.
3. f = 1KHz.
4. Valid provided the terminals are kept at ambient temperature.

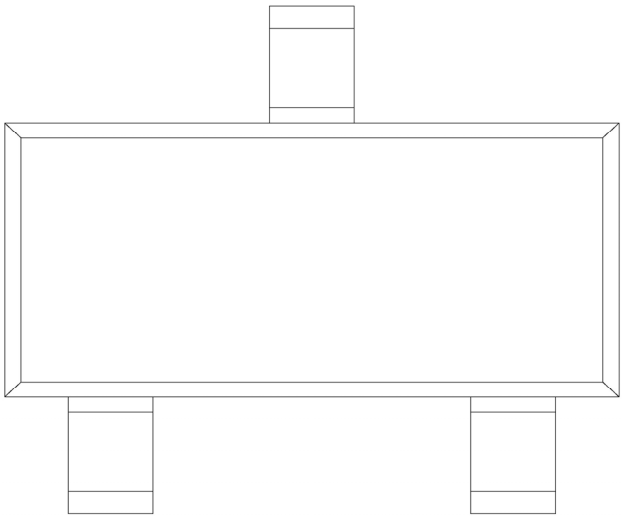
/ Electrical Characteristic Curve











BZX84BXXX
Rev.A Jan.-2023

DATA SHEET