

FEATURES

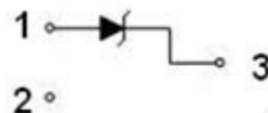
- Non-wire bonding structure improves
- High demand voltage range (3.6V-36V)
- This is a Pb-Free device
- We declare that the material of product compliance with RoHS requirements.



SOT-23

CONSTRUCTION

- Silicon epitaxial planar



ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Parameter	Symbol	Limits	Unit
Power dissipation	P	225	mW
Junction temperature	Tj	+150	°C
Storage temperature	Tstg	-55 to +150	°C
Operating temperature	Topr	-55 to +150	°C

DEVICE MARKING CODE

Device	Marking	Device	Marking	Device	Marking
BZX84-B2V0,215	02	BZX84-B5V6,215	C2	BZX84-B16,215	55
BZX84-B2V2,215	12	BZX84-B6V2,215	E2	BZX84-B18,215	65
BZX84-B2V4,215	22	BZX84-B6V8,215	F2	BZX84-B20,215	75
BZX84-B2V7,215	32	BZX84-B7V5,215	H2	BZX84-B22,215	85
BZX84-B3V0,215	42	BZX84-B8V2,215	J2	BZX84-B24,215	95
BZX84-B3V3,215	52	BZX84-B9V1,215	L2	BZX84-B27,215	A5
BZX84-B3V6,215	62	BZX84-B10,215	05	BZX84-B30,215	C5
BZX84-B3V9,215	72	BZX84-B11,215	15	BZX84-B33,215	E5
BZX84-B4V3,215	82	BZX84-B12,215	25	BZX84-B36,215	F5
BZX84-B4V7,215	92	BZX84-B13,215	35	—	—
BZX84-B5V1,215	A2	BZX84-B15,215	45	—	—

ELECTRICAL CHARACTERISTICS(Ta=25°C)

Device	Zener voltage			Operating resistance		Rising operating resistance		Reverse current	
	V _Z (V)			Z _Z (Ω)		Z _{ZK} (Ω)		I _R (μA)	
	Min.	Max.	I _Z (mA)	Max.	I _Z (mA)	Max.	I _Z (mA)	Max.	V _R (V)
BZX84-B2V0,215	2.020	2.200	5	100	5	1000	0.5	120	0.5
BZX84-B2V2,215	2.220	2.410	5	100	5	1000	0.5	120	0.7
BZX84-B2V4,215	2.430	2.630	5	100	5	1000	0.5	100	1.0
BZX84-B2V7,215	2.690	2.910	5	110	5	1000	0.5	100	1.0
BZX84-B3V0,215	3.010	3.220	5	120	5	1000	0.5	50	1.0
BZX84-B3V3,215	3.320	3.530	5	120	5	1000	0.5	20	1.0
BZX84-B3V6,215	3.600	3.845	5	100	5	1000	1.0	10	1.0
BZX84-B3V9,215	3.890	4.160	5	100	5	1000	1.0	5	1.0
BZX84-B4V3,215	4.170	4.430	5	100	5	1000	1.0	5	1.0
BZX84-B4V7,215	4.550	4.750	5	100	5	800	0.5	2	1.0
BZX84-B5V1,215	4.980	5.200	5	80	5	500	0.5	2	1.5
BZX84-B5V6,215	5.490	5.730	5	60	5	200	0.5	1	2.5
BZX84-B6V2,215	6.060	6.330	5	60	5	100	0.5	1	3.0
BZX84-B6V8,215	6.650	6.930	5	40	5	60	0.5	0.5	3.5
BZX84-B7V5,215	7.280	7.600	5	30	5	60	0.5	0.5	4.0
BZX84-B8V2,215	8.020	8.360	5	30	5	60	0.5	0.5	5.0
BZX84-B9V1,215	8.850	9.230	5	30	5	60	0.5	0.5	6.0
BZX84-B10,215	9.770	10.210	5	30	5	60	0.5	0.1	7.0
BZX84-B11,215	10.760	11.220	5	30	5	60	0.5	0.1	8.0
BZX84-B12,215	11.740	12.240	5	30	5	80	0.5	0.1	9.0
BZX84-B13,215	12.910	13.490	5	37	5	80	0.5	0.1	10.0
BZX84-B15,215	14.340	14.980	5	42	5	80	0.5	0.1	11.0
BZX84-B16,215	15.850	16.510	5	50	5	80	0.5	0.1	12.0
BZX84-B18,215	17.560	18.350	5	65	5	80	0.5	0.1	13.0
BZX84-B20,215	19.520	20.390	5	85	5	100	0.5	0.1	15.0
BZX84-B22,215	21.540	22.470	5	100	5	100	0.5	0.1	17.0
BZX84-B24,215	23.720	24.780	5	120	5	120	0.5	0.1	19.0
BZX84-B27,215	26.190	27.530	5	150	5	150	0.5	0.1	21.0
BZX84-B30,215	29.190	30.690	5	200	5	200	0.5	0.1	23.0
BZX84-B33,215	32.150	33.790	5	250	5	250	0.5	0.1	25.0
BZX84-B36,215	35.070	36.870	5	300	5	300	0.5	0.1	27.0

Notes) 1. The Zener voltage (V_Z) is measured 40ms after power is supplied.

2. The operating resistances (Z_Z, Z_{ZK}) are measured by superimposing a minute alternating current on the regulated current (I_Z).

ELECTRICAL CHARACTERISTIC CURVES($T_a=25^{\circ}\text{C}$)

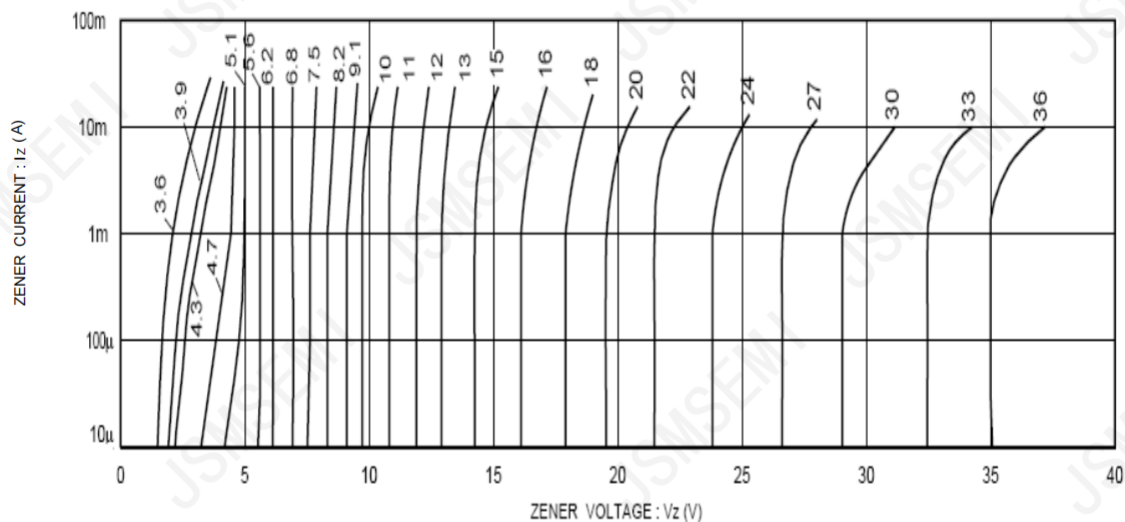


Fig.1 Zener voltage characteristics

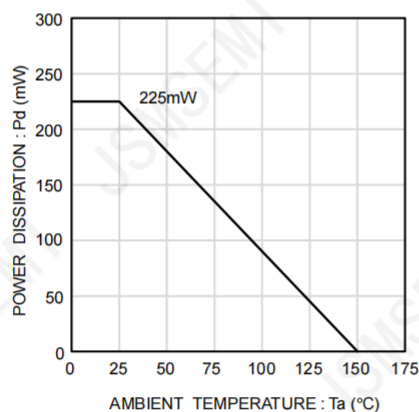


Fig.2 Derating curve

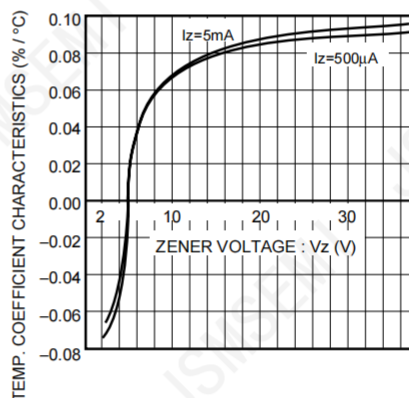
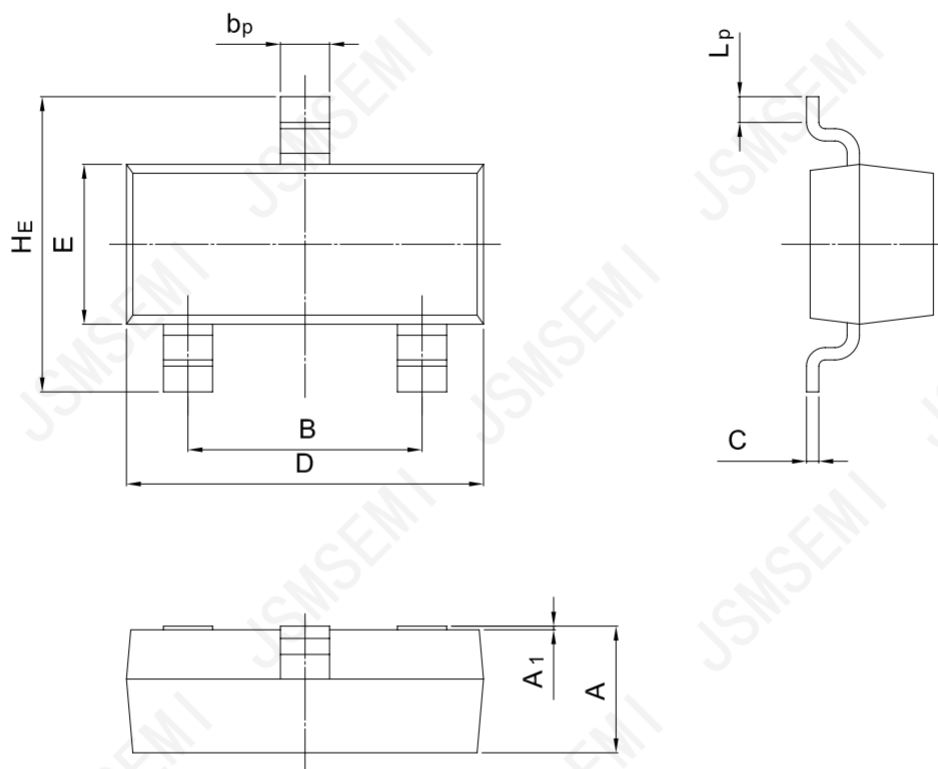


Fig.3 Zener voltage-temp.
coefficient characteristics

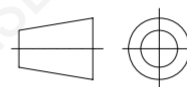
PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	bp	C	D	E	HE	A1	Lp
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20



Revision History

Rev.	Change	Date
V1.0	Initial version	2/23/2024

Important Notice

JSMSEMI Semiconductor (JSMSEMI) PRODUCTS ARE NEITHER DESIGNED NOR INTENDED FOR USE IN MILITARY AND/OR AEROSPACE, AUTOMOTIVE OR MEDICAL DEVICES OR SYSTEMS UNLESS THE SPECIFIC JSMSEMI PRODUCTS ARE SPECIFICALLY DESIGNATED BY JSMSEMI FOR SUCH USE. BUYERS ACKNOWLEDGE AND AGREE THAT ANY SUCH USE OF JSMSEMI PRODUCTS WHICH JSMSEMI HAS NOT DESIGNATED FOR USE IN MILITARY AND/OR AEROSPACE, AUTOMOTIVE OR MEDICAL DEVICES OR SYSTEMS IS SOLELY AT THE BUYER' S RISK.

JSMSEMI assumes no liability for application assistance or customer product design. Customers are responsible for their products and applications using JSMSEMI products.

Resale of JSMSEMI products or services with statements diferent from or beyond the parameters stated by JSMSEMI for that product or service voids all express and any implied warranties for the associated JSMSEMI product or s ervice. JSMSEMI is not responsible or liable for any such statements.

JSMSEMI All Rights Reserved. Information and data in this document are owned by JSMSEMI wholly and may not be edited, reproduced, or redistributed in any way without the express written consent from JSMSEMI.

Any and all information described or contained herein are subject to change without notice due to product/technology improvement, etc. When designing equipment, refer to the "Delivery Specification" for the JSMSEMI product that you intend to use.

For additional information please contact Kevin@jsmsemi.com or visit www.jsmsemi.com