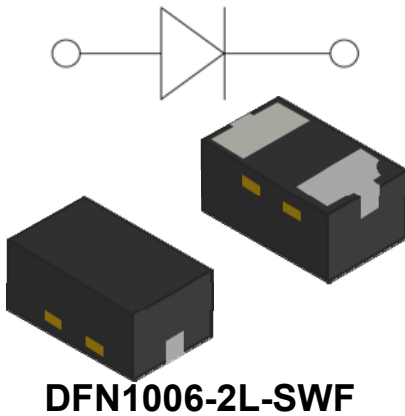


Small Signal Zener Diodes



Features

- Epoxy meets UL-94 V-0 flammability rating and halogen free
- Zener Voltage 2.4V~36V
- V_z -tolerance $\pm 2\%$ approximately
- Part no. with suffix "Q" means AEC-Q101 qualified

Applications

- General regulation functions

Mechanical Data

- **Case:** DFN1006-2L-SWF
- **Terminals:** Tin plated leads, solderable per, J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

■ Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	VALUE
Power Dissipation	P_D	mW	365 [1]
Storage Temperature Range	T_{stg}	$^\circ\text{C}$	-55~+150
Junction Temperature	T_J	$^\circ\text{C}$	-55~+150
Maximum Regulator Current	I_{ZM}	mA	P_D / V_z
Maximum Forward Voltage ($I_F=10\text{mA}_{dc}$)	V_F	V	0.9
Thermal Resistance Junction to Ambient Air*	$R_{\theta JA}$	$^\circ\text{C}/\text{W}$	340 [1]

[1] Device mounted on a FR4 PCB, single-sided 70um copper, tin-plated and standard footprint.

■ Ordering Information (Example)

PREFERRED P/N	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BZX884SB2V4HQ THRU BZX884SB36HQ	Approximate 0.0009	10K	100K	400K	Tape & Reel



BZX884SB2V4HQ THRU BZX884SB36HQ

■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

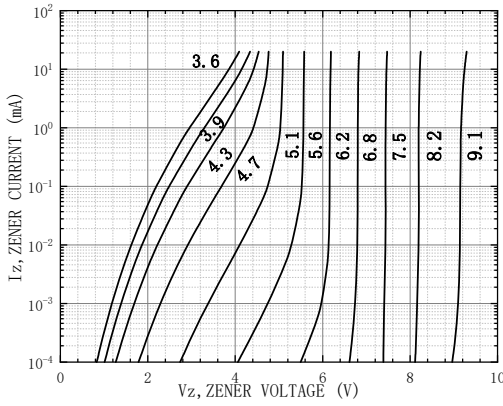
Type Number	Device Marking	V _z at I _{zt} (V)			I _{zt} mA	Z _{zt} (Ω)		Z _{zk} (Ω)		I _R (μA)@V _R		Typical Temperature Coefficient@ I _{ZTC} mV/°C		Test Current I _{ZTC} mA
		min.	typ.	max.		I _z (mA)	max.	I _{zk} (mA)	max.	max	V _R (V)	Min	Max	
BZX884SB2V4HQ	3E	2.35	2.4	2.45	5	5	100	1.0	600	50	1.0	-3.5	0	5
BZX884SB3V3HQ	3F	3.23	3.3	3.37	5	5	95	1.0	600	5	1.0	-3.5	0	5
BZX884SB3V6HQ	2E	3.53	3.6	3.67	5	5	90	1.0	600	5	1.0	-3.5	0	5
BZX884SB3V9HQ	2F	3.82	3.9	3.98	5	5	90	1.0	600	3	1.0	-3.5	0	5
BZX884SB4V3HQ	2G	4.21	4.3	4.39	5	5	90	1.0	600	3	1.0	-3.5	0	5
BZX884SB4V7HQ	2H	4.61	4.7	4.79	5	5	80	1.0	500	3	2.0	-3.5	0.2	5
BZX884SB5V1HQ	2J	5.0	5.1	5.2	5	5	60	1.0	480	2	2.0	-2.7	1.2	5
BZX884SB5V6HQ	2K	5.49	5.6	5.71	5	5	40	1.0	400	1	2.0	-2	2.5	5
BZX884SB6V2HQ	2L	6.08	6.2	6.32	5	5	10	1.0	150	3	4.0	0.4	3.7	5
BZX884SB6V8HQ	N3	6.66	6.8	6.94	5	5	15	1.0	80	2	4.0	1.2	4.5	5
BZX884SB7V5HQ	2M	7.35	7.5	7.65	5	5	15	1.0	80	1	5.0	2.5	5.3	5
BZX884SB8V2HQ	2N	8.04	8.2	8.36	5	5	15	1.0	80	0.7	5.0	3.2	6.2	5
BZX884SB9V1HQ	2P	8.92	9.1	9.28	5	5	15	1.0	100	0.5	6.0	3.8	7.0	5
BZX884SB10HQ	2Q	9.8	10	10.2	5	5	20	1.0	150	0.2	7.0	4.5	8.0	5
BZX884SB11HQ	2R	10.78	11	11.22	5	5	20	1.0	150	0.1	8.0	5.4	9.0	5
BZX884SB12HQ	2S	11.76	12	12.24	5	5	25	1.0	150	0.1	8.0	6.0	10.0	5
BZX884SB13HQ	2T	12.74	13	13.3	5	5	30	1.0	170	0.1	8.0	7.0	11.0	5
BZX884SB15HQ	2U	14.7	15	15.3	5	5	30	1.0	200	0.1	10.5	9.2	13.0	5
BZX884SB16HQ	2V	15.68	16	16.3	5	5	40	1.0	200	0.1	11.2	10.4	14.0	5
BZX884SB18HQ	2W	17.6	18	18.4	5	5	45	1.0	225	0.1	12.6	12.4	16.0	5
BZX884SB20HQ	2X	19.6	20	20.4	5	5	55	1.0	225	0.1	14.0	14.4	18.0	5
BZX884SB22HQ	2Y	21.56	22	22.44	5	5	55	1.0	250	0.1	15.4	16.4	20.0	5
BZX884SB24HQ	2Z	23.52	24	24.5	5	5	70	1.0	250	0.1	16.8	18.4	22.0	5
BZX884SB27HQ	3A	26.46	27	27.54	2	2	80	0.5	300	0.1	18.9	21.4	25.3	2
BZX884SB30HQ	3B	29.4	30	30.6	2	2	80	0.5	300	0.1	21.0	24.4	29.4	2
BZX884SB33HQ	3C	32.34	33	33.7	2	2	80	0.5	325	0.1	23.1	27.4	33.4	2
BZX884SB36HQ	3D	35.28	36	36.72	2	2	90	0.5	350	0.1	25.2	30.4	37.4	2



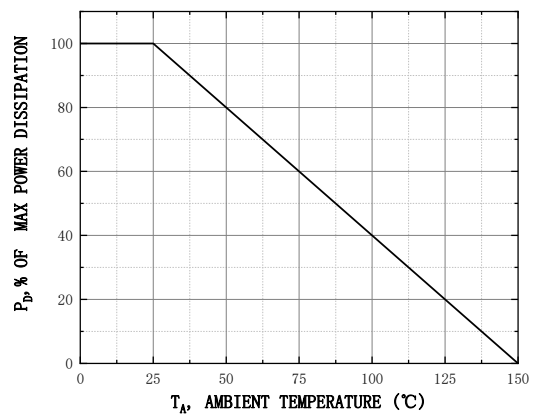
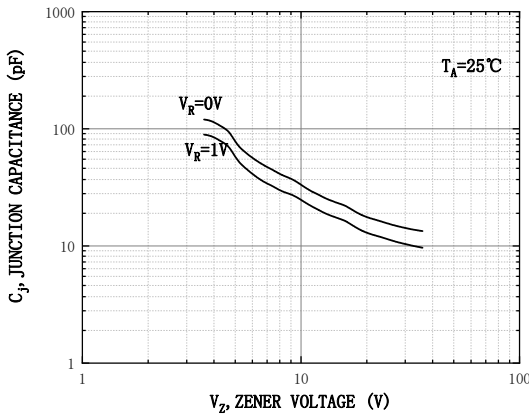
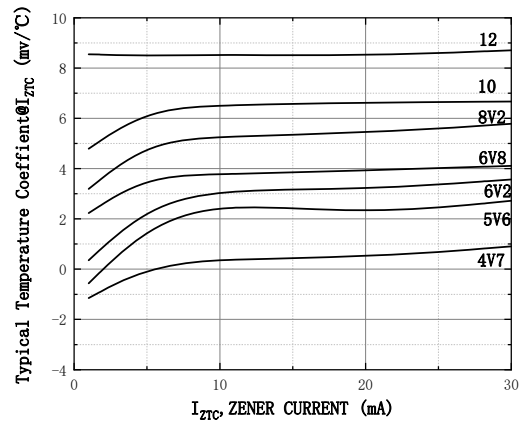
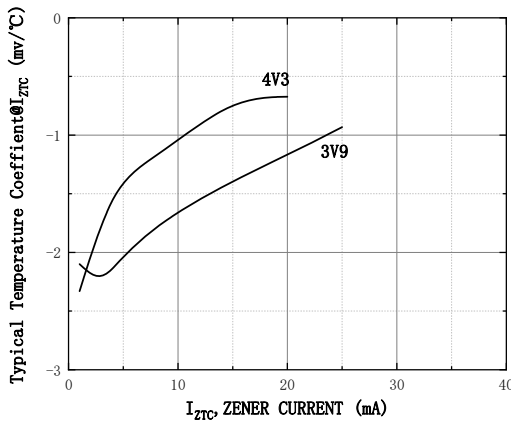
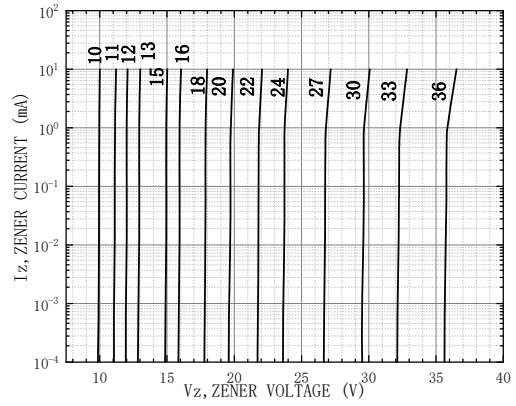
BZX884SB2V4HQ THRU BZX884SB36HQ

■ Characteristics (Typical)

ZENER BREAKDOWN CHARACTERISTICS



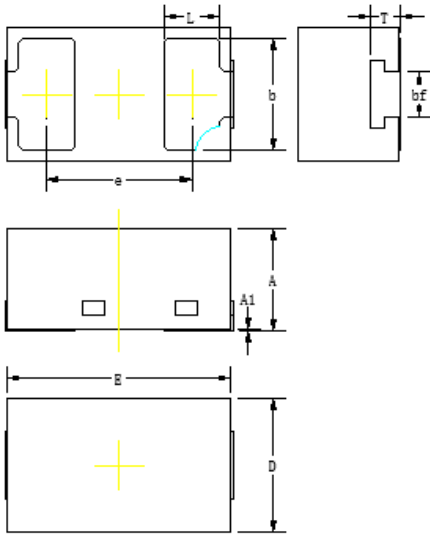
ZENER BREAKDOWN CHARACTERISTICS





BZX884SB2V4HQ THRU BZX884SB36HQ

■ Outline Dimensions



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	0.4200	0.4700	0.5200
A1	0.0000		0.1000
bf	REF. 0.20		
b	0.4100	0.5000	0.5900
D	0.5000	0.6000	0.7000
E	0.9000	1.0000	1.1000
e	REF. 0.65		
L	0.1500	0.2500	0.3500
T	0.1000	0.1600	0.2200

■ Marking Information



Note:

1. All marking is at middle of the product body
2. All marking is in laser marking
3. Body color: Black
4. XX is Marking Code
5. % is a date code, rotated 90° counterclockwise

*Date Code vary depending upon production date



BZX884SB2V4HQ THRU BZX884SB36HQ

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