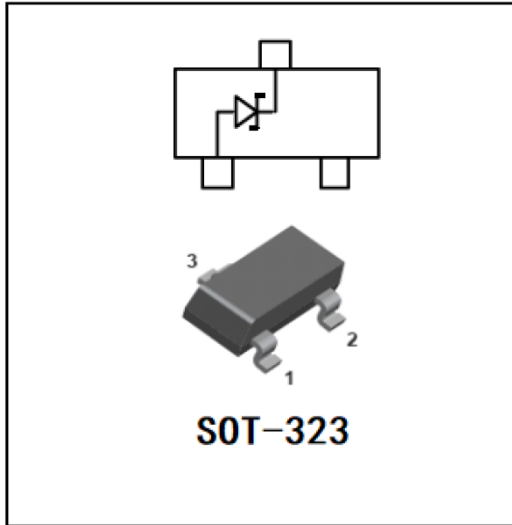


Zener Diodes



Features

- High reliability
- Very sharp reverse characteristic
- Low reverse current level
- Zener Voltage 2.4V~39V

Mechanical Data

- **Package:** SOT-323
- Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

■ Limiting Values (Absolute Maximum Rating, Ta=25°C Unless otherwise specified)

Characteristic	Symbol	Value	Units
Maximum Forward Voltage @I _F =10mA	V _F	0.9	V
Power Dissipation	P _D	200	mW
Peak Forward Surge Current*	I _{FSM}	2.0	A
Thermal Resistance	R _{thJA}	625	°C /W
Operation Temperature	T _J	-55~+150	°C
Storage Temperature Range	T _{STG}	-55~+150	°C

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BZX84B2V4W THRU BZX84B36W	F2	Approximate 0.005	3000	30000	120000	7" reel



BZX84B2V4W THRU BZX84B36W

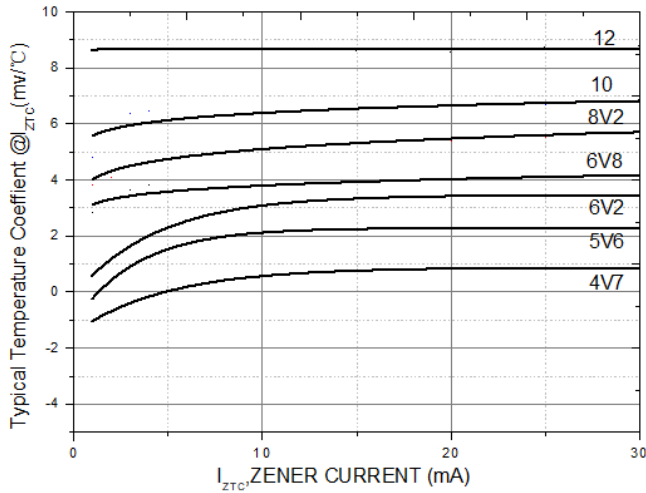
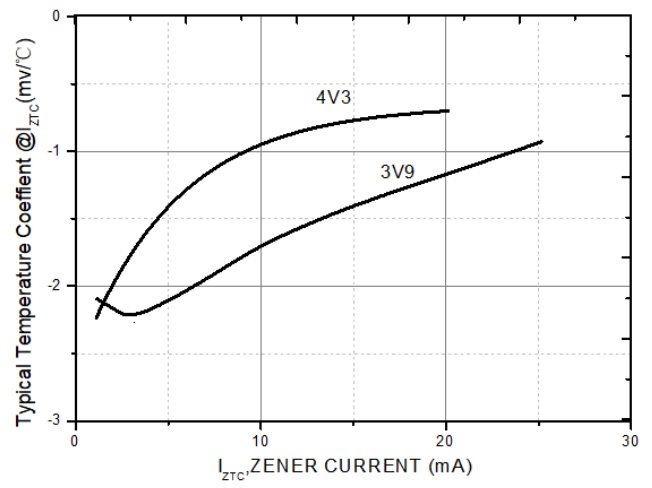
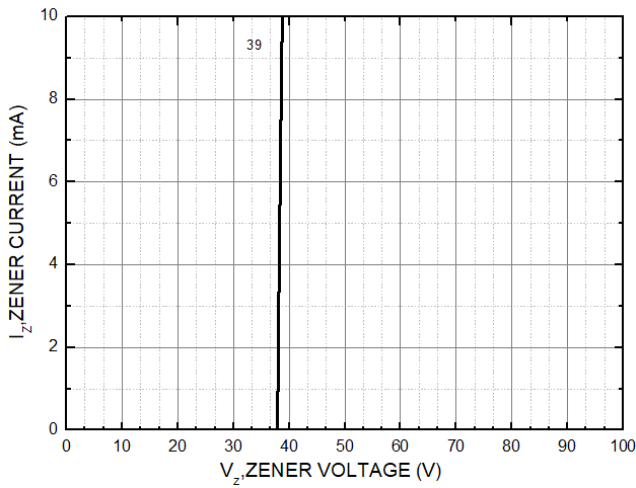
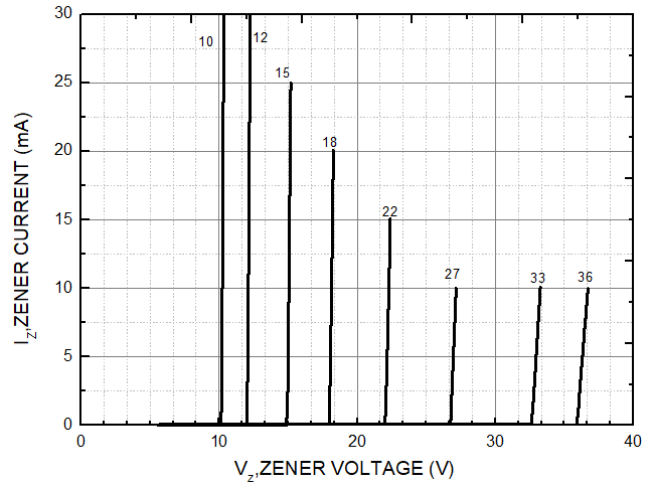
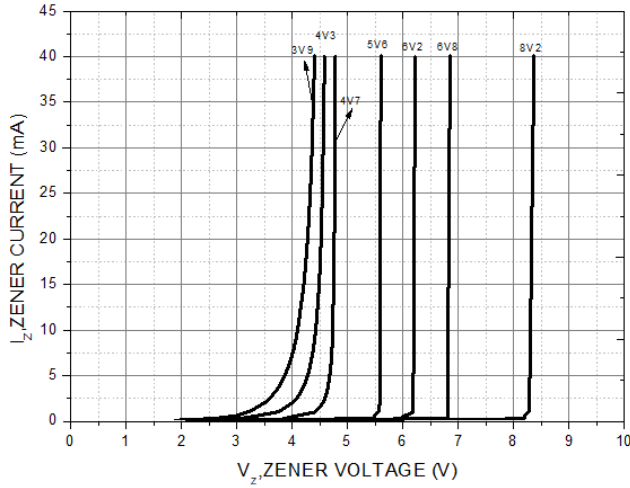
■Electrical Characteristics (T_a=25°C Unless otherwise specified)

Type Number	Marking Code	Nominal Zener Voltage			Maximum Zener Impedance				Max Reverse Leakage Current	
		V _Z (V)at I _{ZT} =5mA			Z _{ZT} (Ω)@I _{ZT}		Z _{ZK} (Ω)@I _{ZK}		I _R (uA) @ V _R	
		Min.	Typ.	Max.	Max	I _{ZT} (mA)	Max	I _{ZK} (mA)	Max	V _R (V)
BZX84B2V4W	2WX	2.34	2.4	2.46	100	5	600	1	50	1
BZX84B2V7W	2W1	2.63	2.7	2.77	100	5	600	1	20	1
BZX84B3V0W	2W2	2.92	3.0	3.08	100	5	600	1	10	1
BZX84B3V3W	2W3	3.21	3.3	3.39	95	5	600	1	5	1
BZX84B3V6W	2W4	3.52	3.6	3.67	95	5	600	1	5	1
BZX84B3V9W	2W5	3.82	3.9	3.98	95	5	600	1	3	1
BZX84B4V3W	2W6	4.21	4.3	4.39	95	5	600	1	3	1
BZX84B4V7W	2W7	4.61	4.7	4.79	80	5	500	1	3	2
BZX84B5V1W	2W8	5.0	5.1	5.2	60	5	480	1	2	2
BZX84B5V6W	2W9	5.49	5.6	5.71	40	5	400	1	1	2
BZX84B6V2W	2WA	6.08	6.2	6.32	10	5	150	1	3	4
BZX84B6V8W	2WB	6.66	6.8	6.94	15	5	80	1	2	4
BZX84B7V5W	2WC	7.35	7.5	7.65	15	5	80	1	1	5
BZX84B8V2W	2WD	8.04	8.2	8.36	15	5	80	1	0.7	5
BZX84B9V1W	2WE	8.92	9.1	9.28	15	5	100	1	0.5	6
BZX84B10W	WG	9.8	10	10.2	20	5	150	1	0.2	7
BZX84B11W	2WG	10.78	11	11.22	20	5	150	1	0.1	8
BZX84B12W	WI	11.76	12	12.24	25	5	150	1	0.1	8
BZX84B13W	2WI	12.74	13	13.3	30	5	170	1	0.1	8
BZX84B15W	WL	14.7	15	15.3	30	5	200	1	0.1	10.5
BZX84B16W	WM	15.68	16	16.3	40	5	200	1	0.1	11.2
BZX84B18W	WN	17.6	18	18.4	45	5	225	1	0.1	12.6
BZX84B20W	2WM	19.6	20	20.4	55	5	225	1	0.1	14
BZX84B22W	2WN	21.56	22	22.44	55	5	250	1	0.1	15.4
BZX84B24W	WR	23.52	24	24.5	70	5	250	1	0.1	16.8
BZX84B27W	2WP	26.46	27	27.54	80	5	300	1	0.1	18.9
BZX84B30W	2WQ	29.4	30	30.6	80	5	300	1	0.1	21
BZX84B33W	2WR	32.34	33	33.7	80	5	325	1	0.1	23.1
BZX84B36W	2WS	35.28	36	36.72	90	5	350	1	0.1	25.2



BZX84B2V4W THRU BZX84B36W

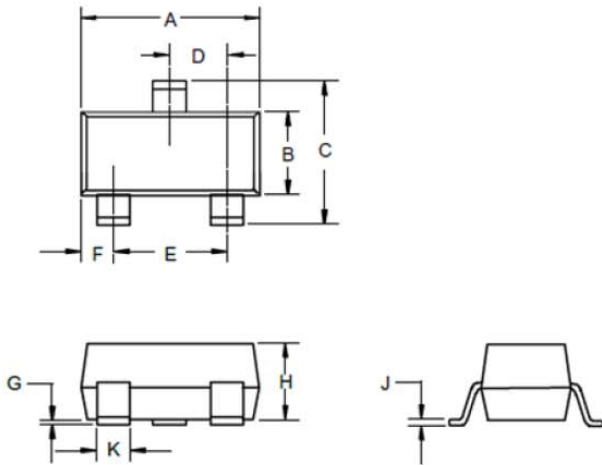
■ Characteristics (Typical)





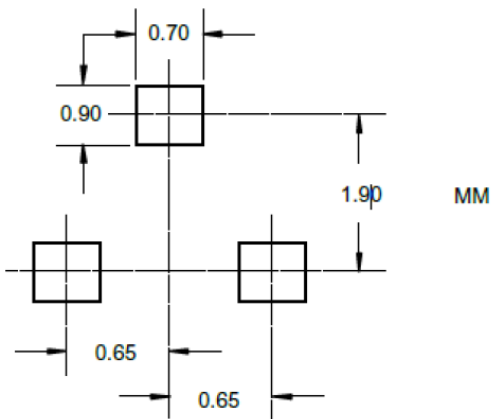
BZX84B2V4W THRU BZX84B36W

■SOT-323 Package Outline Dimensions



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.071	.087	1.80	2.20	
B	.045	.053	1.15	1.35	
C	.083	.096	2.10	2.45	
D	.026 Nominal		0.65Nominal		
E	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
H	.035	.039	.90	1.00	
J	.004	.010	.100	.250	
K	.006	.016	.15	.40	

■SOT-323 Suggested Pad Layout





BZX84B2V4W THRU BZX84B36W

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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