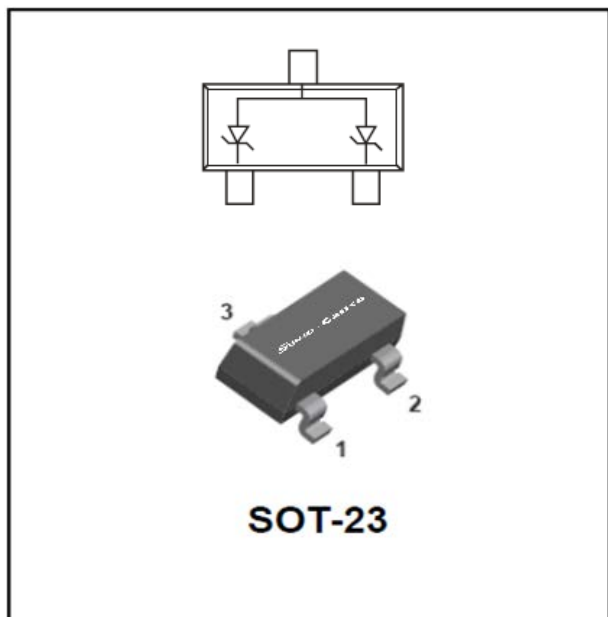


Zener Diode



Features

- Dual zeners in common anode configuration.
- 300mW power dissipation rating.
- Ideally suited for automatic insertion.
- ΔV_z for both diodes in one case is $\leq 2\%$.

■ Limiting Values (Absolute Maximum Rating, $T_a=25^\circ\text{C}$ Unless otherwise specified)

Characteristic	Symbol	Value	Units
Maximum Forward Voltage @ $I_F=10\text{mA}$	V_F	0.9	V
Power Dissipation	P_D	300	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	417	$^\circ\text{C}/\text{W}$
Junction Temperature	T_J	-55~+150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55~+150	$^\circ\text{C}$

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
AZ23B2V4-AZ23B47	F2	Approximate 0.008	3000	30000	120000	7" reel

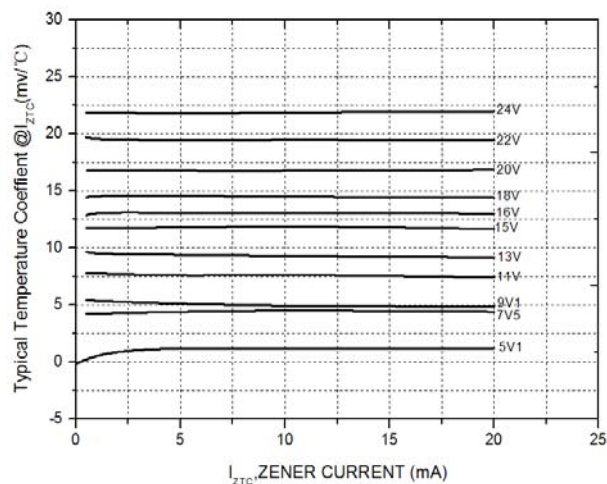
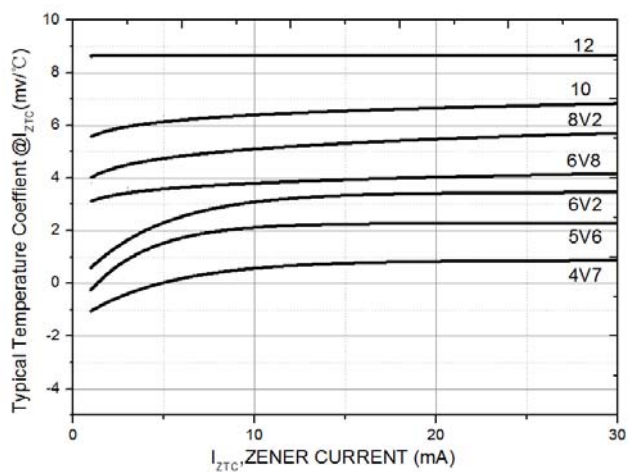
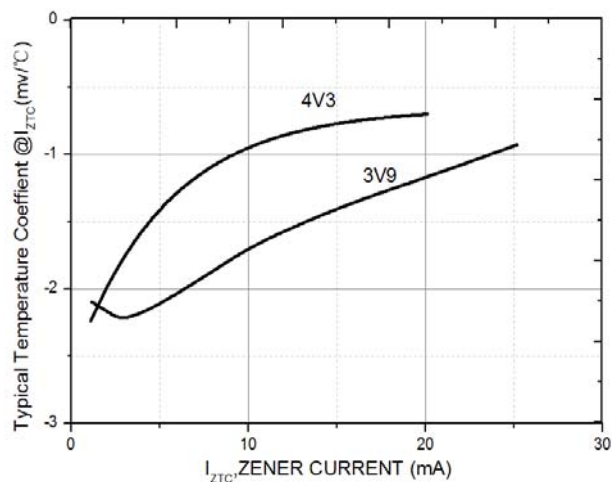
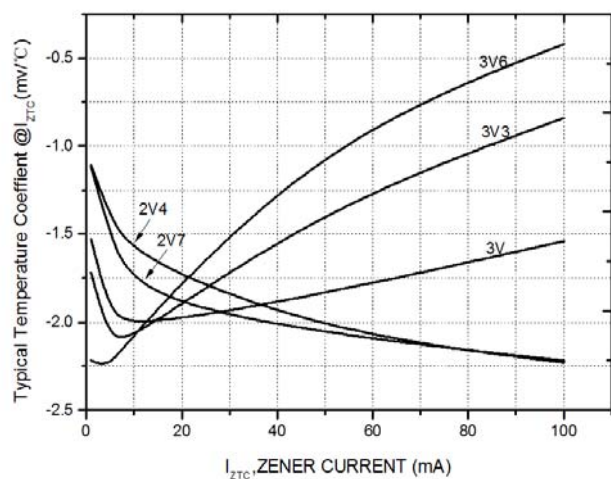
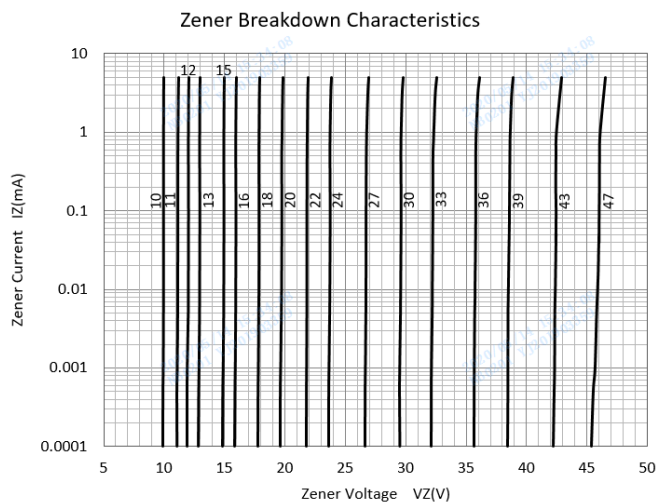
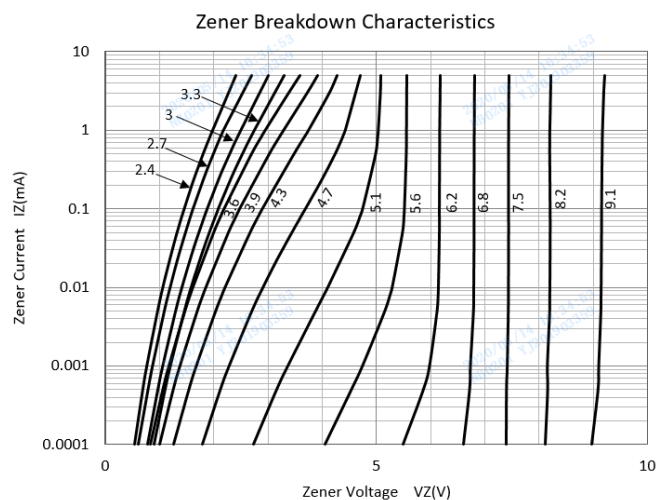
AZ23B2V4 THRU AZ23B47

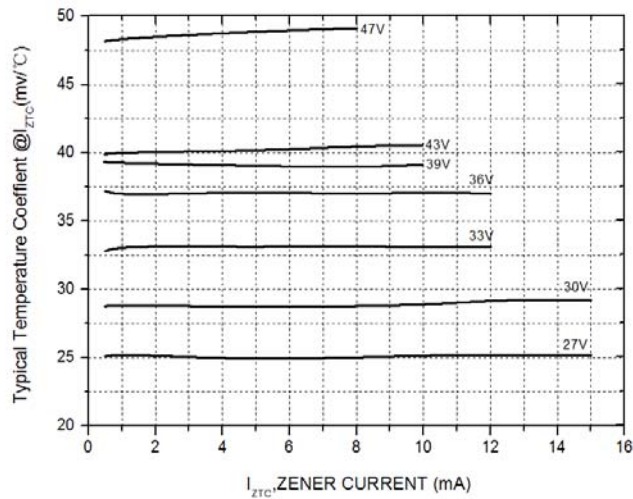
■Electrical Characteristics (T_a=25°C Unless otherwise specified)

Type Numbe	Marking Code	Nominal Zener Voltage			Maximum Zener Impedance				Min Reverse Leakage Current	
		V _Z (V)@ I _{ZT} =5mA			Z _{ZT} @I _{ZT}		Z _{Zk} @I _{Zk}		I _R @ V _R	
		Min.	Typ.	Max.	Ω	mA	Ω	mA	uA	V
AZ23B2V4	D0	2.34	2.4	2.46	100	5	600	1	45	1.0
AZ23B2V7	D1	2.63	2.7	2.77	100	5	600	1	20	1.0
AZ23B3V0	D2	2.92	3.0	3.08	100	5	600	1	9	1.0
AZ23B3V3	D3	3.21	3.3	3.39	95	5	600	1	4.5	1.0
AZ23B3V6	D4	3.52	3.6	3.67	95	5	600	1	15	1.0
AZ23B3V9	D5	3.82	3.9	3.98	95	5	600	1	10	1.0
AZ23B4V3	D6	4.21	4.3	4.39	95	5	600	1	5	1.0
AZ23B4V7	D7	4.61	4.7	4.79	78	5	500	1	5	2.0
AZ23B5V1	D8	5.0	5.1	5.2	60	5	480	1	0.1	0.8
AZ23B5V6	D9	5.49	5.6	5.71	40	5	400	1	0.1	1.0
AZ23B6V2	DA	6.08	6.2	6.32	10	5	150	1	0.1	2.0
AZ23B6V8	DB	6.66	6.8	6.94	8	5	80	1	0.1	3.0
AZ23B7V5	DC	7.35	7.5	7.65	7	5	80	1	0.1	5.0
AZ23B8V2	DD	8.04	8.2	8.36	7	5	80	1	0.1	6.0
AZ23B9V1	DE	8.92	9.1	9.28	10	5	100	1	0.1	7.0
AZ23B10	DF	9.8	10	10.2	15	5	150	1	0.1	7.5
AZ23B11	DG	10.78	11	11.22	20	5	150	1	0.1	8.5
AZ23B12	DH	11.76	12	12.24	20	5	150	1	0.1	9.0
AZ23B13	DI	12.74	13	13.3	25	5	170	1	0.1	10.0
AZ23B15	DJ	14.7	15	15.3	30	5	200	1	0.1	11.0
AZ23B16	DK	15.68	16	16.3	40	5	200	1	0.1	12
AZ23B18	DL	17.6	18	18.4	50	5	225	1	0.1	14.0
AZ23B20	DM	19.6	20	20.4	55	5	225	1	01.	15.0
AZ23B22	DN	21.56	22	22.44	55	5	250	1	0.1	17.0
AZ23B24	DO	23.52	24	24.5	70	5	250	1	0.1	18.0
AZ23B27	DP	26.46	27	27.54	80	5	300	1	0.1	20.0
AZ23B30	DQ	29.4	30	30.6	80	5	300	1	0.1	22.5
AZ23B33	DR	32.34	33	33.7	80	5	325	1	0.1	25.0
AZ23B36	DS	35.28	36	36.72	90	5	350	1	0.1	27.0
AZ23B39	DT	38.22	39	39.8	90	5	350	1	0.1	29.0
AZ23B43	D30	42.14	43	43.86	100	5	375	1	0.1	32.0
AZ23B47	D31	46.06	47	47.94	110	5	375	1	0.1	35.0

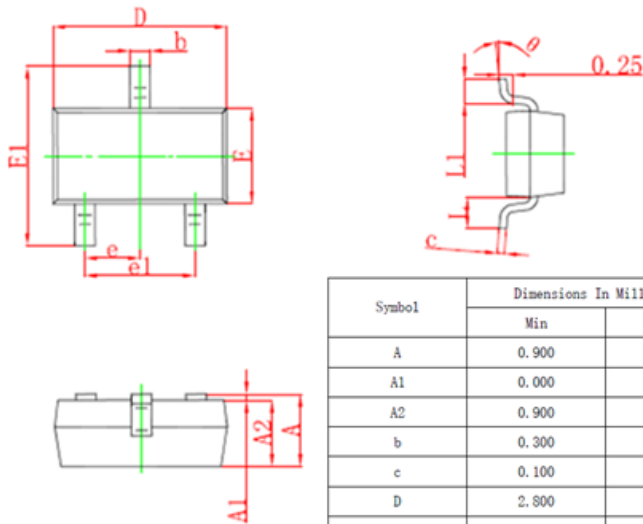
Notes: 1. Short duration test pulse used to minimize self-heating effect.
2. f=1kHz

■ Characteristics(Typical)



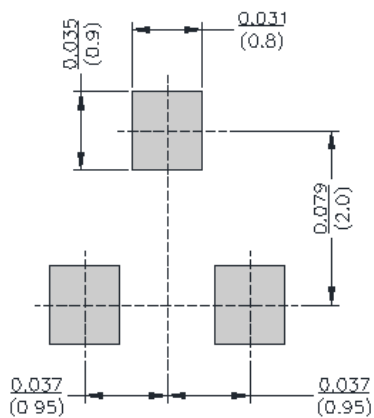


■SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.100	0.200	0.004	0.008
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550REF		0.022REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

■SOT-23 Soldering Footprint



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