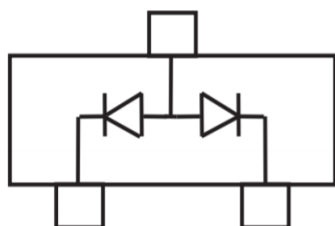


Features

- AEC-Q101 Qualified
- Dual Zeners in Common Anode Configuration
- Ideally Suited for Automated Assembly Processes
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- ESD(HBM): 30KV



Internal Structure

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance : 417°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Power Dissipation	P_D	300	mW

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

AZ23Bxx-TP Series

300 mW Zener Diode 3.6 to 39 Volts

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Electrical Characteristics @ 25°C Unless Otherwise Specified

Part Number	Zener Voltage			Test Current	Maximum Zener Impedance	Maximum Zener Impedance		Maximum Reverse Current		Typical Temperature Coefficient		Test Current
	V _Z @ I _{ZT}			I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK}	I _R @ V _R		T _C @ I _{ZTC}		I _{ZTC}
	min.	typ.	max.					IR	VR	min.	max.	
	V	V	V	mA	Ω	Ω	mA	μA	V	mV/°C	mV/°C	mA
AZ23B3V6-TP	3.53	3.6	3.67	5	90	600	1	5	1	-3.5	0	5
AZ23B3V9-TP	3.82	3.9	3.98	5	90	600	1	3	1	-3.5	0	5
AZ23B4V3-TP	4.21	4.3	4.39	5	90	600	1	3	1	-3.5	0	5
AZ23B4V7-TP	4.61	4.7	4.79	5	80	500	1	3	2	-3.5	0.2	5
AZ23B5V1-TP	5.0	5.1	5.2	5	60	480	1	2	2	-2.7	1.2	5
AZ23B5V6-TP	5.49	5.6	5.71	5	40	400	1	1	2	-2	2.5	5
AZ23B6V2-TP	6.08	6.2	6.32	5	10	150	1	3	4	0.4	3.7	5
AZ23B6V8-TP	6.66	6.8	6.94	5	15	80	1	2	4	1.2	4.5	5
AZ23B7V5-TP	7.35	7.5	7.65	5	15	80	1	1	5	2.5	5.3	5
AZ23B8V2-TP	8.04	8.2	8.36	5	15	80	1	0.7	5	3.2	6.2	5
AZ23B9V1-TP	8.92	9.1	9.28	5	15	100	1	0.5	6	3.8	7	5
AZ23B10-TP	9.8	10	10.2	5	20	150	1	0.2	7	4.5	8	5
AZ23B11-TP	10.78	11	11.22	5	20	150	1	0.1	8	5.4	9	5
AZ23B12-TP	11.76	12	12.24	5	25	150	1	0.1	8	6	10	5
AZ23B13-TP	12.74	13	13.3	5	30	170	1	0.1	8	7	11	5
AZ23B15-TP	14.7	15	15.3	5	30	200	1	0.1	10.5	9.2	13	5
AZ23B16-TP	15.68	16	16.3	5	40	200	1	0.1	11.2	10.4	14	5
AZ23B18-TP	17.6	18	18.4	5	45	225	1	0.1	12.6	12.4	16	5
AZ23B20-TP	19.6	20	20.4	5	55	225	1	0.1	14	14.4	18	5
AZ23B22-TP	21.56	22	22.44	5	55	250	1	0.1	15.4	16.4	20	5
AZ23B24-TP	23.52	24	24.5	5	70	250	1	0.1	16.8	18.4	22	5
AZ23B27-TP	26.46	27	27.54	2	80	300	0.5	0.1	18.9	21.4	25.3	2
AZ23B30-TP	29.4	30	30.6	2	80	300	0.5	0.1	21	24.4	29.4	2
AZ23B33-TP	32.34	33	33.7	2	80	325	0.5	0.1	23.1	27.4	33.4	2
AZ23B36-TP	35.28	36	36.72	2	90	350	0.5	0.1	25.2	30.4	37.4	2
AZ23B39-TP	38.22	39	39.8	2	130	350	0.5	0.1	27.3	33.4	41.2	2

Curve Characteristics

Fig. 1 - Power Derating Curve

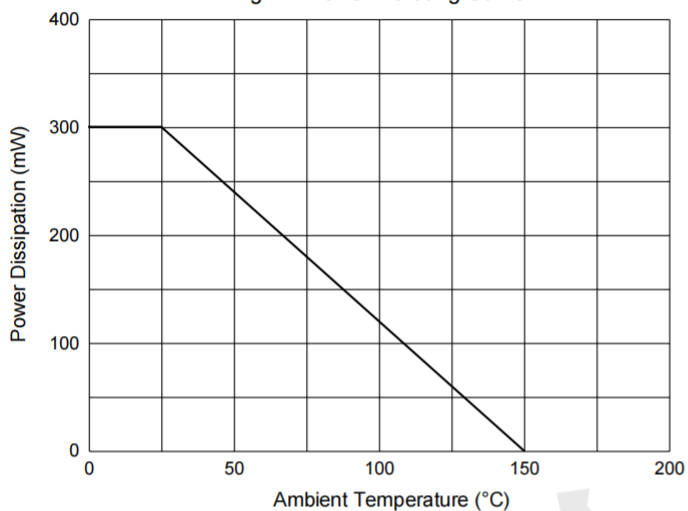


Fig. 2 - Typical Zener Breakdown Characteristics

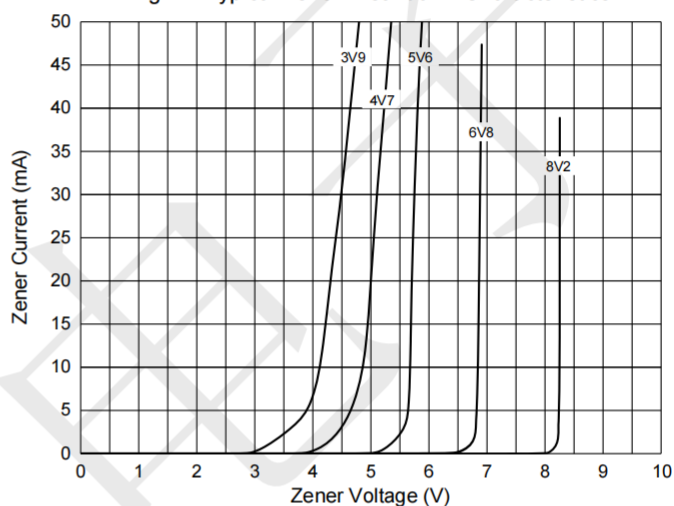
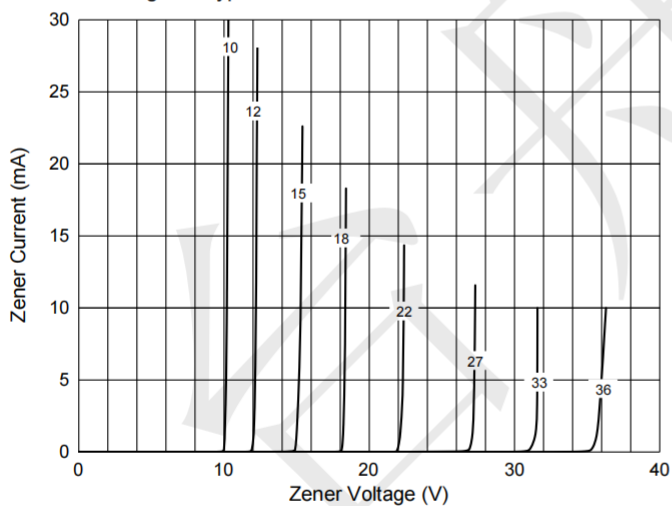
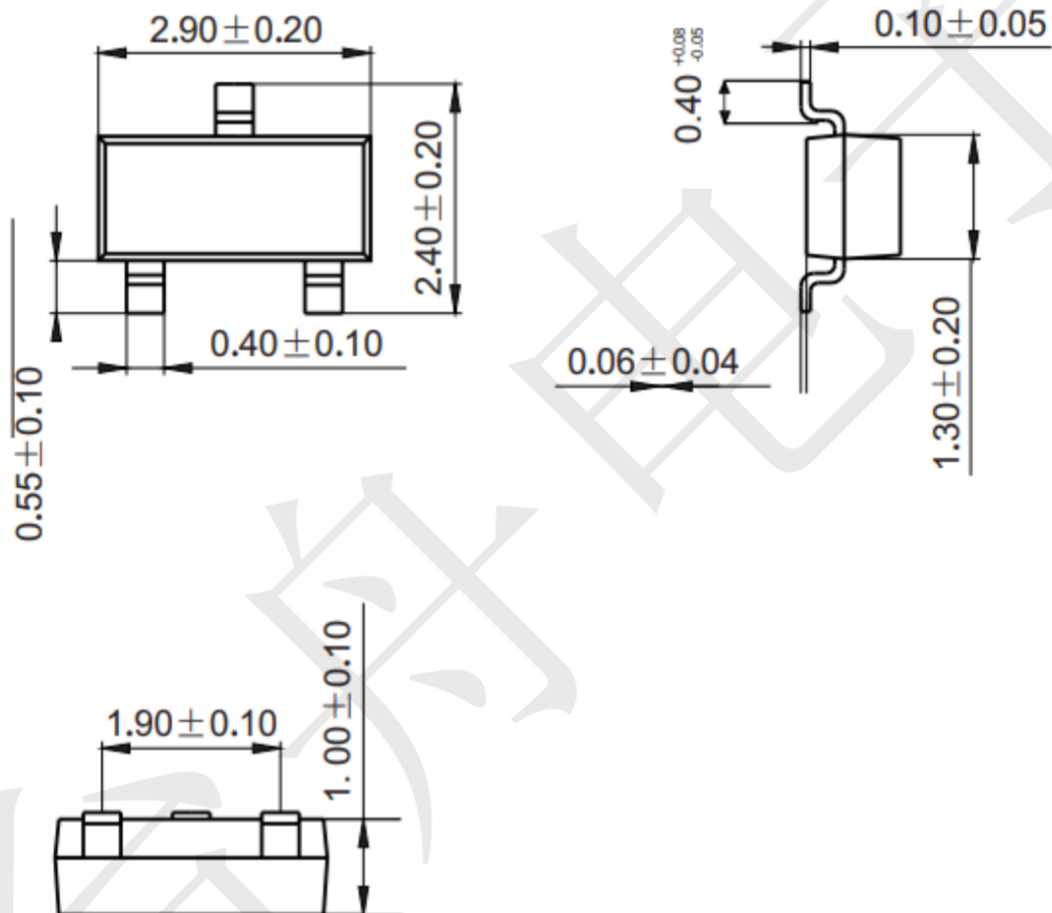


Fig. 3 - Typical Zener Breakdown Characteristics



Package information (Unit: mm)

SOT-23



Mounting Pad Layout (Unit: mm)

