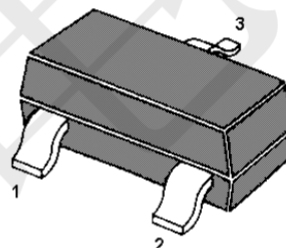
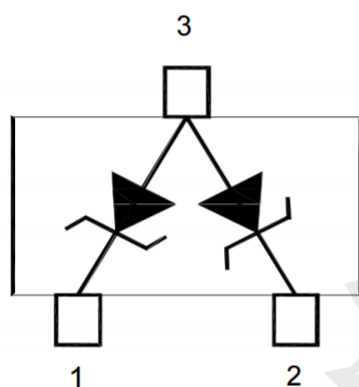


Features

- Zener breakdown voltage range - 2.4 V to 75 V
- Package designed for optimal automated board assembly
- Small package size for high density applications



1. Cathode 2. Cathode 3. Anode
 SOT-23 Plastic Package

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	350	mW
Thermal Resistance, Junction to Ambient ¹⁾	$R_{\theta JA}$	417	$^\circ\text{C/W}$
Junction and Storage Temperature Range	T_j, T_s	- 65 to + 150	$^\circ\text{C}$

¹⁾ Alumina = 0.4 X 0.3 X 0.024 in, 99.5% alumina

Characteristics at $T_a = 25^\circ\text{C}$

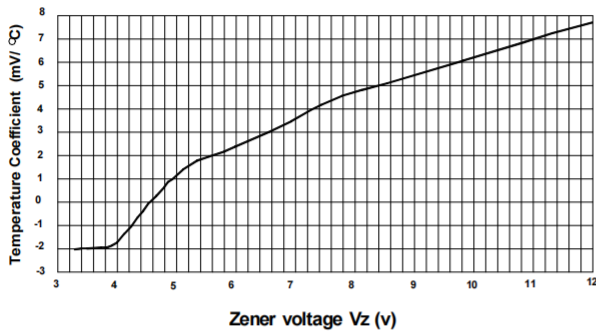
Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 10\text{ mA}$	V_F	0.9	V

Electrical Characteristics ($T_a = 25^\circ\text{C}$ unless otherwise noted)

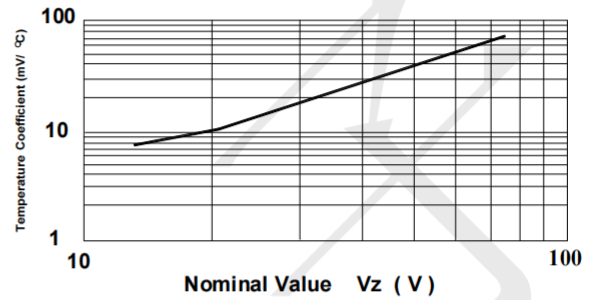
Type	Zener Voltage Range ¹⁾				Dynamic Resistance		Reverse Leakage Current	
	V_Z			at I_{ZT}	Z_{ZT}	at I_{ZT}	I_R	at V_R
	Nom. (V)	Min. (V)	Max. (V)	mA	Max. (Ω)	mA	Max. (μA)	V
AZ23C2V4-TP	2.4	2.2	2.6	5	100	5	50	1
AZ23C2V7-TP	2.7	2.5	2.9	5	100	5	20	1
AZ23C3V0-TP	3.0	2.8	3.2	5	95	5	10	1
AZ23C3V3-TP	3.3	3.1	3.5	5	95	5	5	1
AZ23C3V6-TP	3.6	3.4	3.8	5	90	5	5	1
AZ23C3V9-TP	3.9	3.7	4.1	5	90	5	3	1
AZ23C4V3-TP	4.3	4	4.6	5	90	5	3	1
AZ23C4V7-TP	4.7	4.4	5	5	80	5	3	2
AZ23C5V1-TP	5.1	4.8	5.4	5	60	5	2	2
AZ23C5V6-TP	5.6	5.2	6	5	40	5	1	2
AZ23C6V2-TP	6.2	5.8	6.6	5	10	5	3	4
AZ23C6V8-TP	6.8	6.4	7.2	5	15	5	2	4
AZ23C7V5-TP	7.5	7	7.9	5	15	5	1	5
AZ23C8V2-TP	8.2	7.7	8.7	5	15	5	0.7	5
AZ23C9V1-TP	9.1	8.5	9.6	5	15	5	0.5	6
AZ23C10-TP	10	9.4	10.6	5	20	5	0.2	7
AZ23C11-TP	11	10.4	11.6	5	20	5	0.1	8
AZ23C12-TP	12	11.4	12.7	5	25	5	0.1	8
AZ23C13-TP	13	12.4	14.1	5	30	5	0.1	8
AZ23C15-TP	15	14.3	15.8	5	30	5	0.05	10.5
AZ23C16-TP	16	15.3	17.1	5	40	5	0.05	11.2
AZ23C18-TP	18	16.8	19.1	5	45	5	0.05	12.6
AZ23C20-TP	20	18.8	21.2	5	55	5	0.05	14
AZ23C22-TP	22	20.8	23.3	5	55	5	0.05	15.4
AZ23C24-TP	24	22.8	25.6	5	70	5	0.05	16.8
AZ23C27-TP	27	25.1	28.9	2	80	2	0.05	18.9
AZ23C30-TP	30	28	32	2	80	2	0.05	21
AZ23C33-TP	33	31	35	2	80	2	0.05	23.1
AZ23C36-TP	36	34	38	2	90	2	0.05	25.2
AZ23C39-TP	39	37	41	2	130	2	0.05	27.3
AZ23C43-TP	43	40	46	2	150	2	0.05	30.1
AZ23C47-TP	47	44	50	2	170	2	0.05	32.9
AZ23C51-TP	51	48	54	2	180	2	0.05	35.7
AZ23C56-TP	56	52	60	2	200	2	0.05	39.2
AZ23C62-TP	62	58	66	2	215	2	0.05	43.4
AZ23C68-TP	68	64	72	2	240	2	0.05	47.6
AZ23C75-TP	75	70	79	2	255	2	0.05	52.5

¹⁾ Tested with pulses $t_p = 20$ ms.

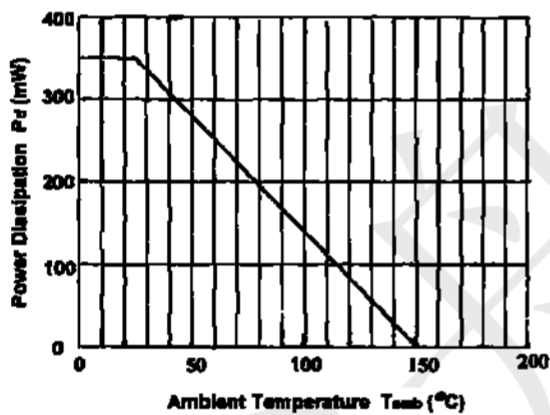
Temperature Coefficient



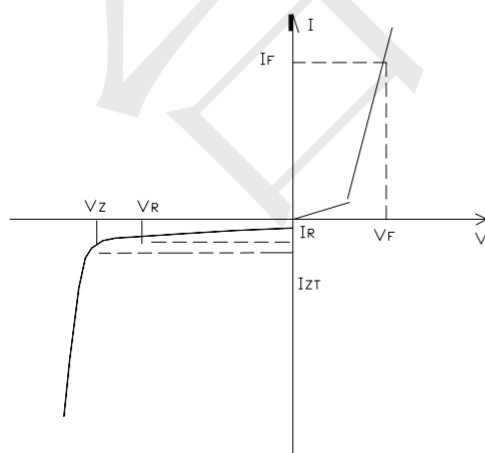
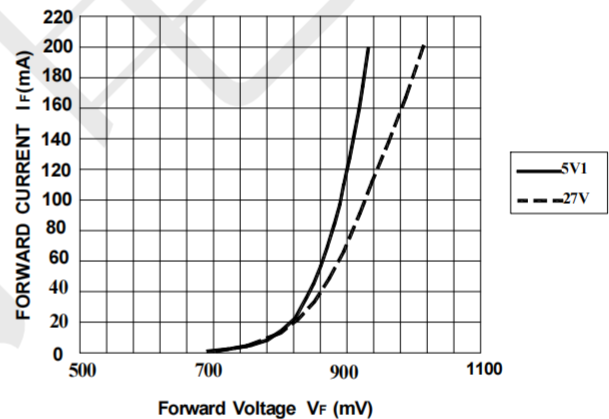
Temperature Coefficient



Power Derating Curve



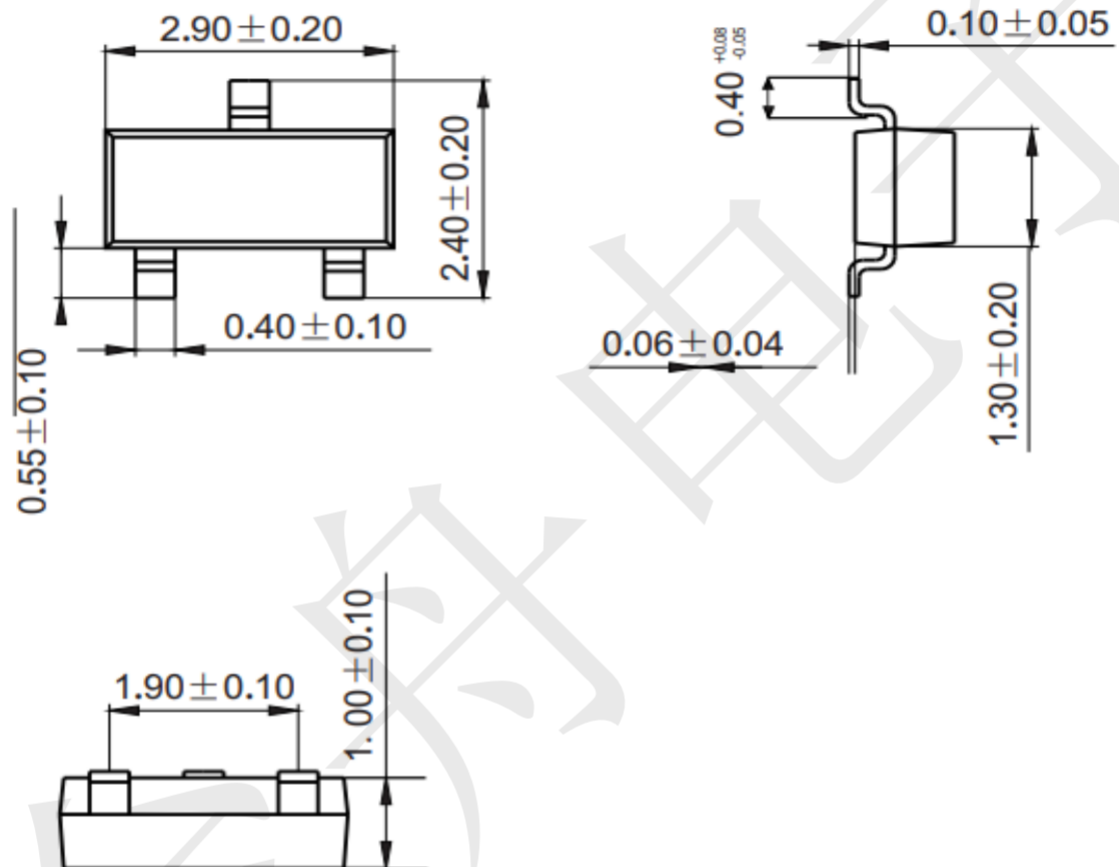
Typical Forward Voltage



Zener Voltage Regulator

Package Outline Dimensions (unit: mm)

SOT-23



Mounting Pad Layout (unit: mm)

