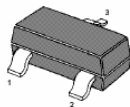
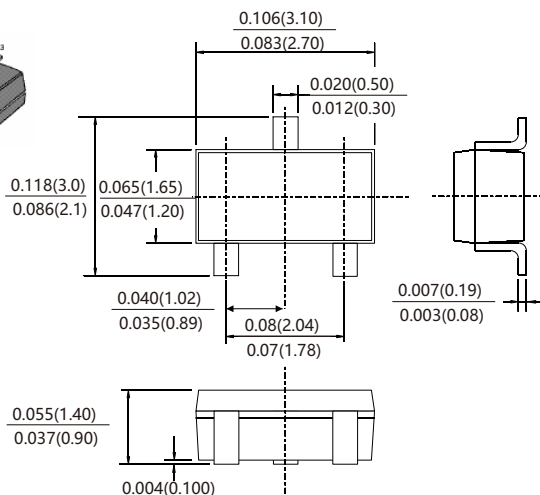


FEATURES

- Dual Zeners common anode configuration
- Power Dissipation of 300mW
- High Stability and High Reliability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/95/EU
- Tolerance approximately: $\pm 5\%$

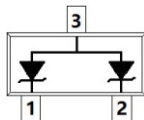


SOT-23



MECHANICAL DATA

- Case: SOT-23 plastic case
- Weight: Approx. 8.8mg



ABSOLUTE MAXIMUM RATINGS (TA=25 °C)

Dimensions in inches and (millimeters)

Parameters	Symbols	Value	Units
Total Power dissipation	P _D	300	mW
Thermal Resistance, Junction to Ambient ¹⁾	R _{θJA}	417	°C/W
Forward Voltage@I _F =10mA	V _F	0.9	V
Junction temperature	T _J	150	°C
Storage temperature range	T _{STG}	-55 to +150	°C

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

AZ23C2V7 ... AZ23C39

Electrical Characteristics($T_a = 25^\circ\text{C}$ unless other wise noted, $V_F < 0.9\text{V}$ at $I_F = 10\text{mA}$)

Part Number	Marking	Nominal Zener Voltage (note1)			Max. Zener Impedance (note2)		Typical Temperature Coefficient	Min Reverse Voltage (note1)
		V _Z (V) @ I _{ZT} =5.0mA			Z _{VT} @ I _{ZT} =5.0mA	Z _{VK} @ I _{ZK} =1.0mA	T _C (%/°C)	V _R (V) @ I _R =0.1μA
		Nom.	Min.	Max.	Ω	Ω		V
AZ23C2V7	KD1	2.7	2.5	2.9	83	500	-0.065	-
AZ23C3V0	KD2	3.0	2.8	3.2	95	500	-0.060	-
AZ23C3V3	KD3	3.3	3.1	3.5	95	500	-0.055	-
AZ23C3V6	KD4	3.6	3.4	3.8	95	500	-0.055	-
AZ23C3V9	KD5	3.9	3.7	4.1	95	500	-0.050	-
AZ23C4V3	KD6	4.3	4.0	4.6	95	500	-0.035	-
AZ23C4V7	KD7	4.7	4.1	5.0	78	500	-0.015	-
AZ23C5V1	KD8	5.1	4.8	5.4	60	480	+0.005	0.8
AZ23C5V6	KD9	5.6	5.2	6.0	40	400	+0.020	1.0
AZ23C6V2	KDA	6.2	5.8	6.6	10	200	+0.030	2.0
AZ23C6V8	KDB	6.8	6.4	7.2	8.0	150	+0.045	3.0
AZ23C7V5	KDC	7.5	7.0	7.9	7.0	50	+0.050	5.0
AZ23C8V2	KDD	8.2	7.7	8.7	7.0	50	+0.055	6.0
AZ23C9V1	KDE	9.1	8.5	9.6	10	50	+0.065	7.0
AZ23C10	KDF	10	9.4	10.6	15	70	+0.065	7.5
AZ23C11	KDG	11	10.4	11.6	20	70	+0.070	8.5
AZ23C12	KDH	12	11.4	12.7	20	90	+0.075	9.0
AZ23C13	KDI	13	12.4	14.1	25	110	+0.080	10.0
AZ23C15	KDJ	15	13.8	15.6	30	110	+0.080	11.0
AZ23C16	KDK	16	15.3	17.1	40	170	+0.090	12.0

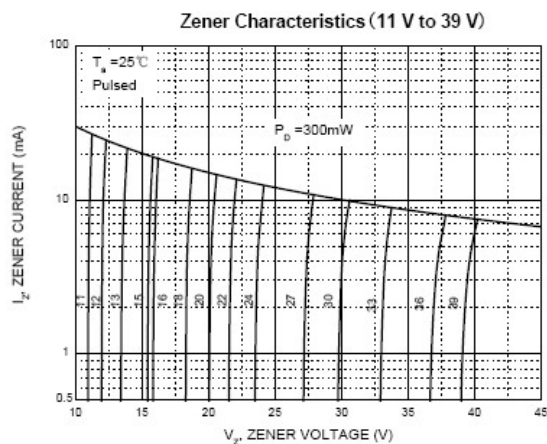
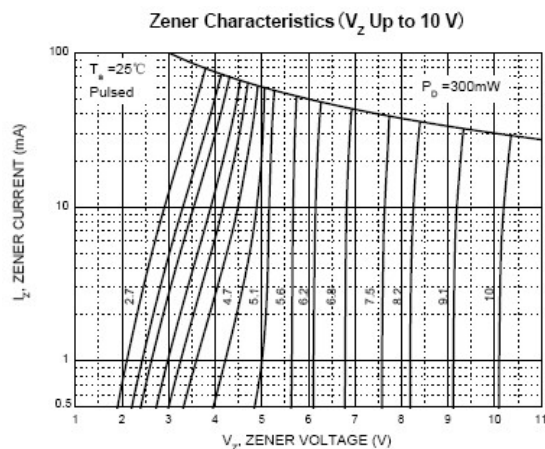
AZ23C2V7 ... AZ23C39

AZ23C18	KDL	18	16.8	19.1	50	170	+0.090	14.0
AZ23C20	KDM	20	18.8	21.2	50	220	+0.090	15.0
AZ23C22	KDN	22	20.8	23.3	55	220	+0.090	17.0
AZ23C24	KDO	24	22.8	25.6	80	220	+0.090	18.0
AZ23C27	KDP	27	25.1	28.9	80	250	+0.090	20.0
AZ23C30	KDQ	30	28	32	80	250	+0.090	22.5
AZ23C33	KDR	33	31	35	80	250	+0.090	25.0
AZ23C36	KDS	39	34	38	90	250	+0.090	27.0
AZ23C39	KDT	39	37	41	90	300	+0.110	29.0

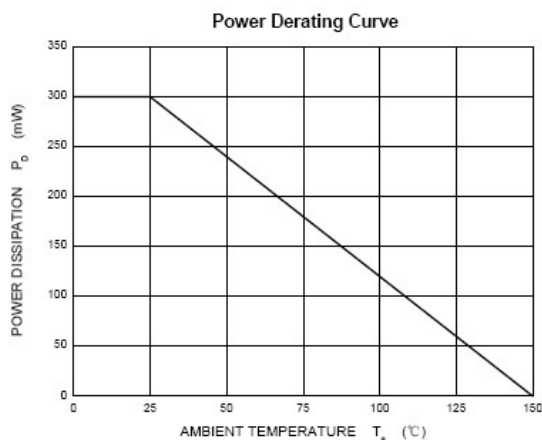
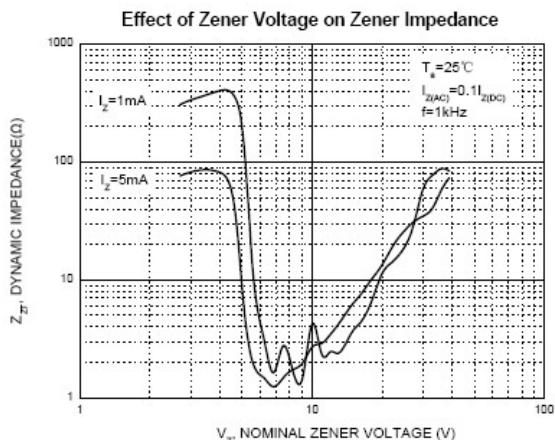
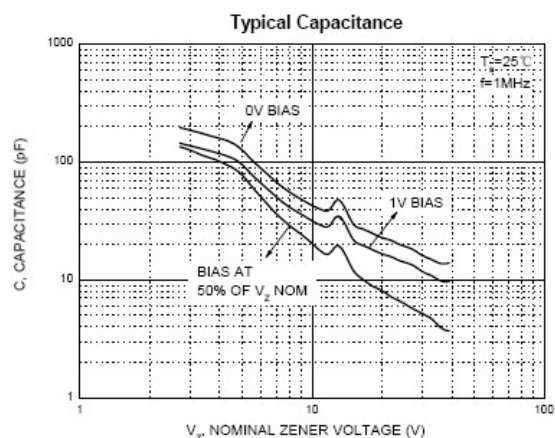
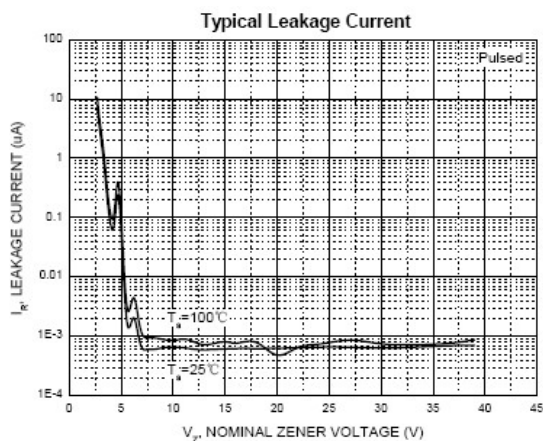
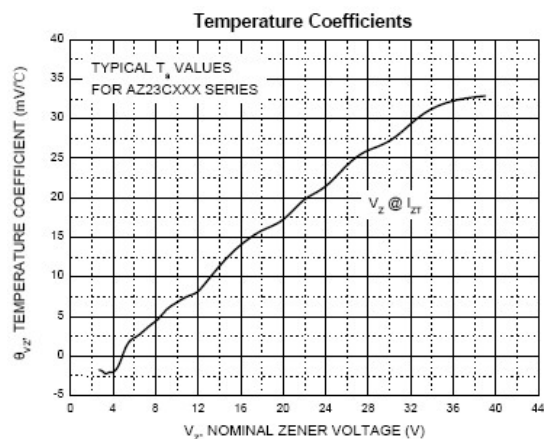
Notes:1 Short duration pulse test used to minimize self-heating effect;

2 $f=1\text{KHz}$

Typical Characteristics



AZ23C2V7 ... AZ23C39



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