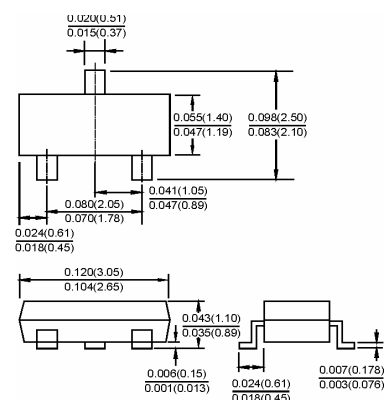


SOT-23



Dimensions in inches and (millimeters)

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 $\leq 5\%$.
- ✧ Common cathode style available see DZ series.
- ✧ Also available in lead free version.

Maximum Ratings @Ta=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Power Dissipation	P_D	300	mW
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	417	°C/W
Operating and Storage Temperature Range	T_L, T_{STG}	-65 to +150	°C

Electrical Characteristics @ $T_a = 25^\circ\text{C}$ unless otherwise specified

Type Number	Marking Code	Zener voltage Range (note1)	Maximum zener Impedance (note 2)		Typical Temperature coefficient	Min reverse Voltage (note1)
		@ $I_{ZT}=5.0\text{mA}$	$Z_{ZT}@I_{ZT}=5.0\text{mA}$	$Z_{Zk}@I_{Zk}=1.0\text{mA}$		@ $I_R=0.1\mu\text{A}$
		V_Z (volts)	Ohms	Ohms		V_R (volts)
AZ23C2V7	KD1	2.5-2.9	83	500	-0.065	—
AZ23C3V0	KD2	2.8-3.2	95	500	-0.060	—
AZ23C3V3	KD3	3.1-3.5	95	500	-0.055	—
AZ23C3V6	KD4	3.4-3.8	95	500	-0.055	—
AZ23C3V9	KD5	3.7-4.1	95	500	-0.050	—
AZ23C4V3	KD6	4.0-4.6	95	500	-0.035	—
AZ23C4V7	KD7	4.4-5.0	78	500	-0.015	—
AZ23C5V1	KD8	4.8-5.4	60	480	+0.005	0.8
AZ23C5V6	KD9	5.2-6.0	40	400	+0.020	1.0
AZ23C6V2	KDA	5.8-6.6	10	200	+0.030	2.0
AZ23C6V8	KDB	6.4-7.2	8.0	150	+0.045	3.0
AZ23C7V5	KDC	7.0-7.9	7.0	50	+0.050	5.0
AZ23C8V2	KDD	7.7-8.7	7.0	50	+0.055	6.0
AZ23C9V1	KDE	8.5-9.6	10	50	+0.065	7.0
AZ23C10	KDF	9.4-10.6	15	70	+0.065	7.5
AZ23C11	KDG	10.4-11.6	20	70	+0.070	8.5
AZ23C12	KDH	11.4-12.7	20	90	+0.075	9.0
AZ23C13	KDI	12.4-14.1	25	110	+0.080	10.0
AZ23C15	KDJ	13.8-15.6	30	110	+0.080	11.0
AZ23C16	KDK	15.3-17.1	40	170	+0.090	12.0
AZ23C18	KDL	16.8-19.1	50	170	+0.090	14.0
AZ23C20	KDM	18.8-21.2	50	220	+0.090	15.0
AZ23C22	KDN	20.8-23.3	55	220	+0.090	17.0
AZ23C24	KDO	22.8-25.6	80	220	+0.090	18.0
AZ23C27	KDP	25.1-28.9	80	250	+0.090	20.0
AZ23C30	KDQ	28-32	80	250	+0.090	22.5
AZ23C33	KDR	31-35	80	250	+0.090	25.0
AZ23C36	KDS	34-38	90	250	+0.090	27.0
AZ23C39	KDT	37-41	90	300	+0.110	29.0

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

2. $f=1\text{kHz}$

Typical Characteristics

