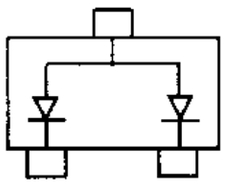
ZENER DIODE

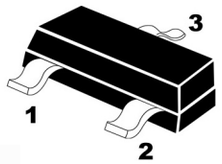
FEATURES

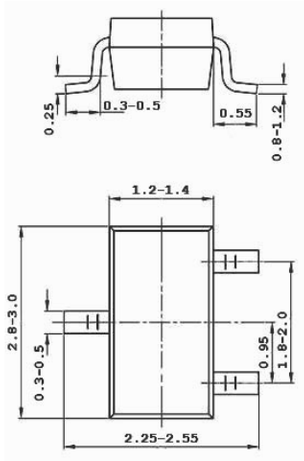
- Dual zeners in common anode configuration
- 350mW Power Dissipation Rating
- Ideally Suited for Automated Insertion
- ∆vz for both diodes in one case is ≤ 5%
- Common cathode style available see DZ series
- Also available in lead free version



MARKING: see table on the next page

SOT-23





Unit:mm

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

MAXIMUM RATINGS

Parameters	Symbols	Value	UNITS
Power Dissipation	P_d	300	mW
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	417	℃/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65~+150	℃

RoHS Pb-free TIP Semiconductor

ELECTRICAL CHARACTERISTICS Ratings at 25℃ ambient temperature unless otherwise specified

Type Number	Type Code	Zener Voltage Range[1]	Maximum Zener Impedance[2]		Typical Temperature Coefficient	Minimum Reverse Voltage[1]
		@ I_{ZT} = 5.0mA	Z_{ZT} @ I_{ZT} = 5.0mA	Z_{ZK} @ I_{ZK} = 5.0mA		@ I_R = 0.1μA
		V_Z (volts)	Ω		Tc (%/℃)	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	15.8-17.1	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 = 1KHz