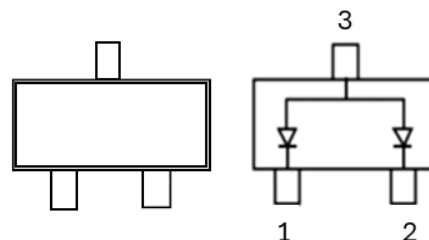


FEATURES AND BENEFITS

Product Summary		
P_D	300mW	@25 °C
V_Z	2.7 – 51V	@25 °C
V_F	0.9V	@ $I_F=10mA$

- Planar Die construction
- Wide Voltage Range Selection 2.7V to 51V
- RoHS Compliant / Green EMC UL Flammability Classification Rating 94V-0
- Matte Tin (Sn) Lead finish Solderable per MIL-STD-202, Method 208
- Moisture Sensitivity: Level 1 per J-STD-020
- Weight: 0.008 grams (Approximate)

SOT-23



Maximum Ratings (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation	P_{TM}	300	mW
Forward Voltage @ $I_F=10mA$	V_F	0.9	V
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 to +150	°C

THERMAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Thermal Resistance from Junction to Ambient*	$R_{\theta JA}$	417	°C/W

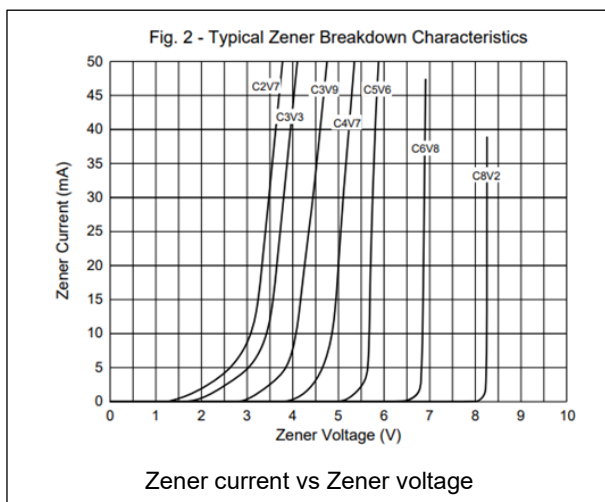
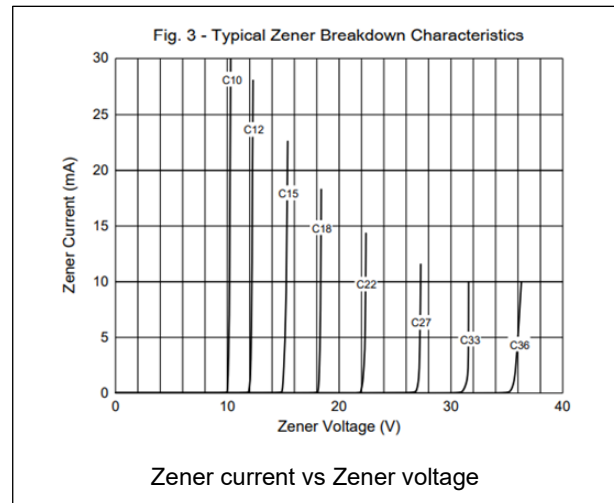
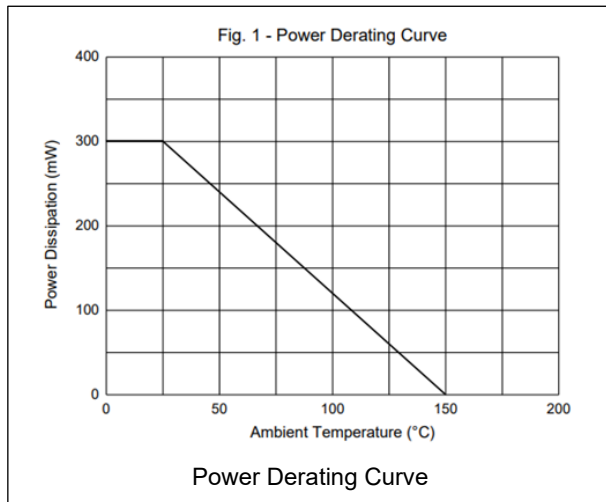
* Device mounted on 1"x1" FR4 PCB

ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)

Type Number	Device Marking	Zener voltage Range	Maximum Zener Impedance		Typical Temperature coefficient	Min reverse Voltage
		@ $I_{ZT}=5.0mA$	Z_{ZT} @ $I_{ZT}=5.0mA$	Z_{Zk} @ $I_{Zk}=1.0mA$		@ $I_R=0.1\mu A$
		V_Z (volts)	Ohms	Ohms	T_c (%/°C)	V_R (volts)
AZ23C2V7	KD1	2.5-2.9	83	500	-0.065	-
AZ23C3V0	KD2	2.8-3.2	95	500	-0.060	-

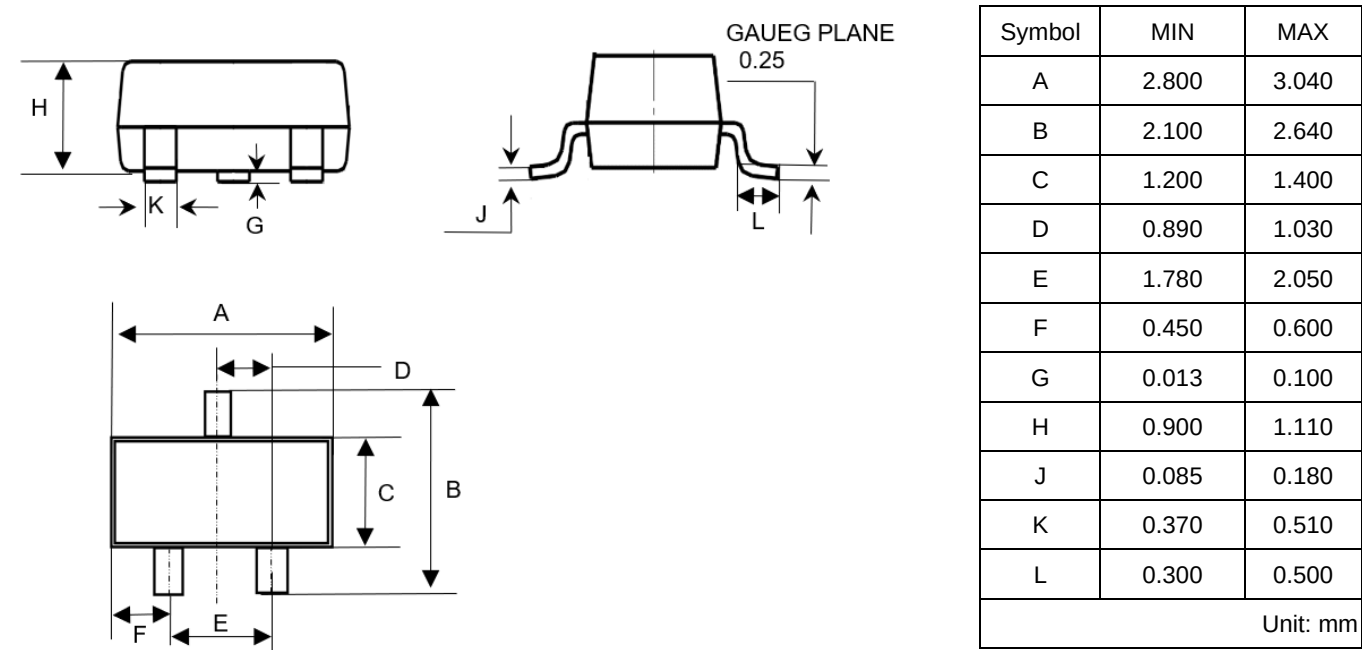
Type Number	Device Marking	Zener voltage Range	Maximum Zener Impedance		Typical Temperature coefficient	Min reverse Voltage
		@ $I_{ZT}=5.0\text{mA}$	Z_{ZT} @ $I_{ZT}=5.0\text{mA}$	Z_{ZT} @ $I_{ZT}=5.0\text{mA}$		@ $I_R=0.1\mu\text{A}$
		V_Z (volts)	Ohms	Ohms	T_c (%/ $^{\circ}\text{C}$)	V_R (volts)
AZ23C3V3	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
AZ23C43	D30	40-46	100	700	+0.110	32.0
AZ23C47	D31	44-50	100	750	+0.110	35.0
AZ23C51	D32	48-54	100	750	+0.110	38.0

RATING AND CHARACTERISTICS CURVES

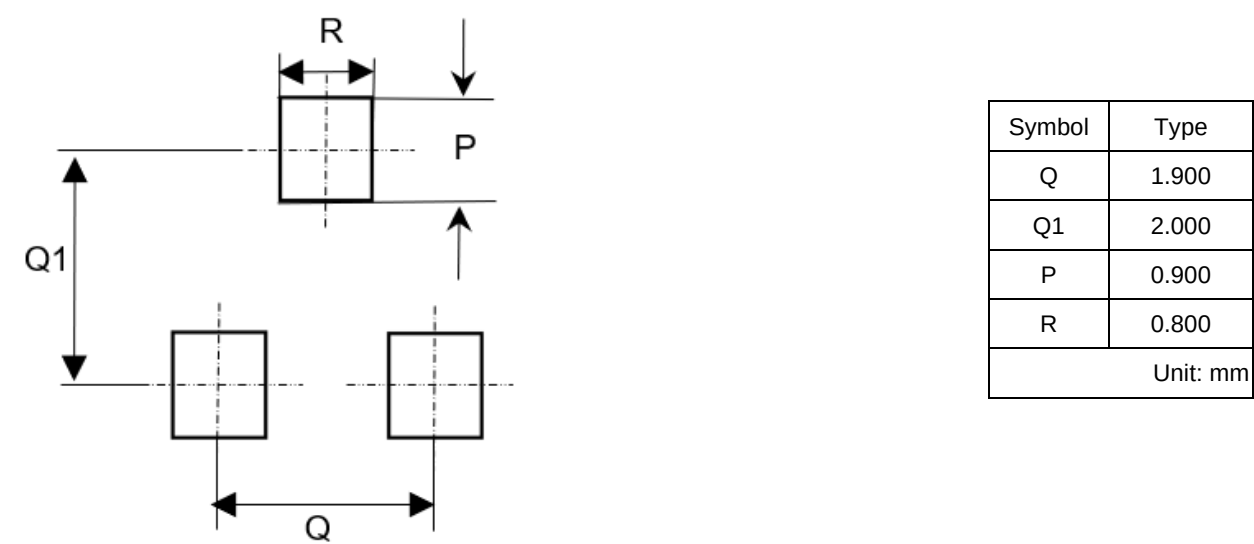


PACKAGE OUTLINE DIMENSIONS

SOT-23



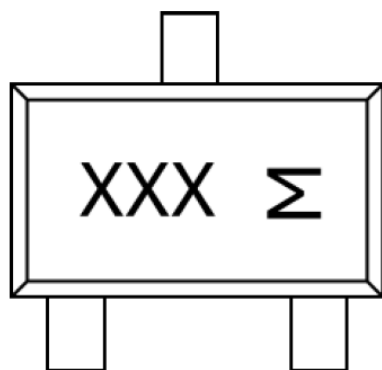
SUGGESTED PAD LAYOUT



Land Pattern Recommendation

DEVICE MARKING CODE AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
AZ23C2V7 series	Refer to Device Marking	3000/7"Reel	Tape & Reel



XXX: Product Marking Code

Σ : Date Code (Rotate 90° counterclockwise)

Odd Year	Even Year
1	E
2	F
3	H
4	J
5	K
6	L
7	N
8	P
9	U
T	X
V	Y
C	Z

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