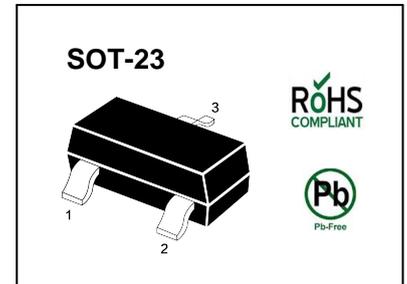
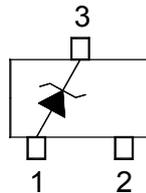


SILICON PLANAR ZENER DIODES



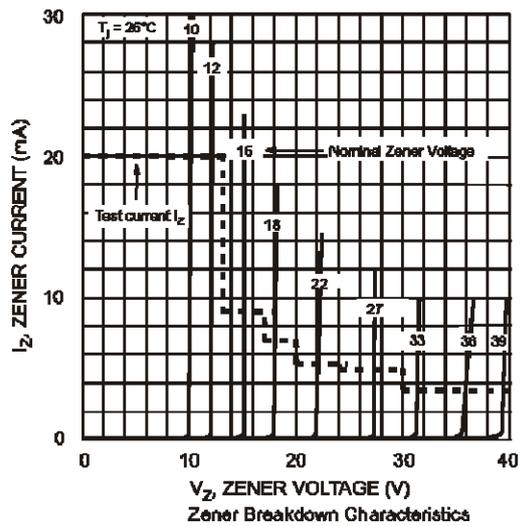
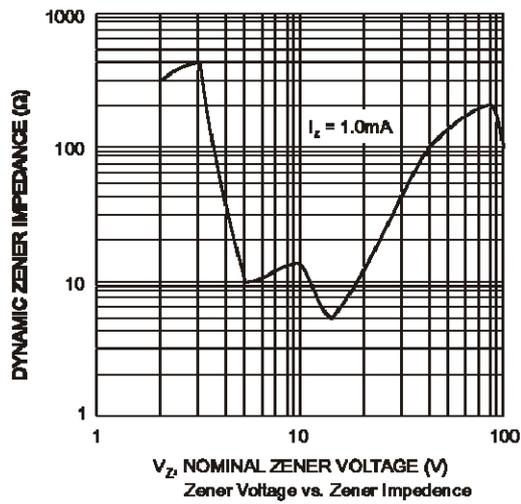
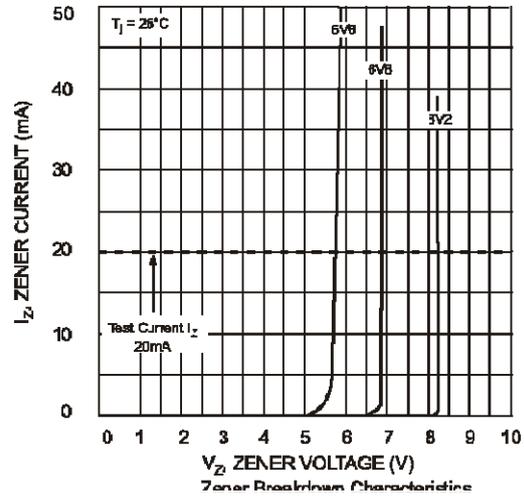
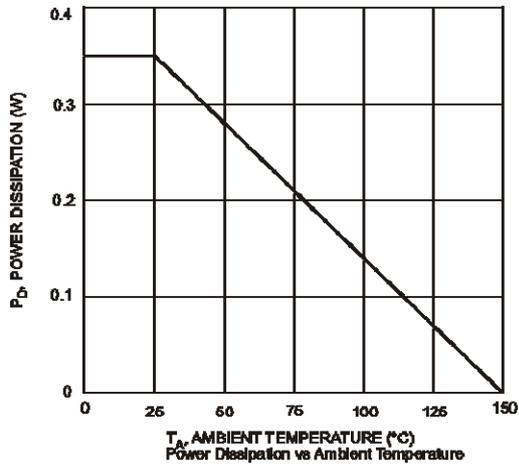
Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	350	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	357	$^\circ\text{C}/\text{W}$
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

Characteristics $T_a = 25\text{ °C}$ ($V_F = 0.9\text{ V}$ Maximum at $I_F = 10\text{ mA}$)

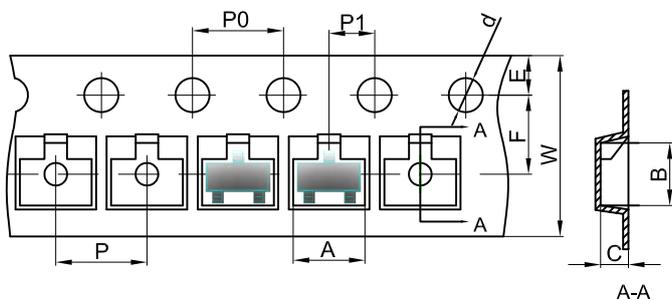
Type	Marking Code	Zener Voltage Range ¹⁾			Max. Dynamic Resistance				Max. Reverse Current	
		V_{znom}	V_{ZT}	at I_{ZT}	Z_{ZT}	at I_{ZT}	Z_{ZK}	at I_{ZK}	I_R	at V_R
		V	V	mA	Ω	mA	Ω	mA	μA	V
MMBZ5221B	Y0	2.4	2.28...2.52	20	30	20	1200	0.25	100	1
MMBZ5223B	Z0	2.7	2.57...2.84	20	30	20	1300	0.25	75	1
MMBZ5225B	AA	3	2.85...3.15	20	30	20	1600	0.25	50	1
MMBZ5226B	AB	3.3	3.14...3.47	20	28	20	1600	0.25	25	1
MMBZ5227B	AC	3.6	3.42...3.78	20	24	20	1700	0.25	15	1
MMBZ5228B	AD	3.9	3.71...4.1	20	23	20	1900	0.25	10	1
MMBZ5229B	AE	4.3	4.09...4.52	20	22	20	2000	0.25	5	1
MMBZ5230B	AF	4.7	4.47...4.94	20	19	20	1900	0.25	5	2
MMBZ5231B	AH	5.1	4.85...5.36	20	17	20	1600	0.25	5	2
MMBZ5232B	AJ	5.6	5.32...5.88	20	11	20	1600	0.25	5	3
MMBZ5233B	AK	6	5.7...6.3	20	7	20	1600	0.25	5	3.5
MMBZ5234B	AM	6.2	5.89...6.51	20	7	20	1000	0.25	5	4
MMBZ5235B	AN	6.8	6.46...7.14	20	5	20	750	0.25	3	5
MMBZ5236B	AP	7.5	7.13...7.88	20	6	20	500	0.25	3	6
MMBZ5237B	AR	8.2	7.79...8.61	20	8	20	500	0.25	3	6.5
MMBZ5239B	AY	9.1	8.65...9.56	20	10	20	600	0.25	3	7
MMBZ5240B	AZ	10	9.5...10.5	20	17	20	600	0.25	3	8
MMBZ5241B	BA	11	10.45...11.55	20	22	20	600	0.25	2	8.4
MMBZ5242B	BB	12	11.4...12.6	20	30	20	600	0.25	1	9.1
MMBZ5243B	BC	13	12.35...13.65	9.5	13	9.5	600	0.25	0.5	9.9
MMBZ5245B	BE	15	14.25...15.75	8.5	16	8.5	600	0.25	0.1	11
MMBZ5246B	BF	16	15.2...16.8	7.8	17	7.8	600	0.25	0.1	12
MMBZ5247B	BH	17	16.15...17.85	7.4	19	7.4	600	0.25	0.1	13
MMBZ5248B	BJ	18	17.1...18.9	7	21	7	600	0.25	0.1	14
MMBZ5249B	BK	19	18.05...19.95	6.6	23	6.6	600	0.25	0.1	14
MMBZ5250B	BM	20	19...21	6.2	25	6.2	600	0.25	0.1	15
MMBZ5251B	BN	22	20.9...23.1	5.6	29	5.6	600	0.25	0.1	17
MMBZ5252B	BP	24	22.8...25.2	5.2	33	5.2	600	0.25	0.1	18
MMBZ5253B	BR	25	23.75...26.25	5	35	5	600	0.25	0.1	19
MMBZ5254B	BX	27	25.65...28.35	4.6	41	4.6	600	0.25	0.1	21
MMBZ5256B	BZ	30	28.5...31.5	4.2	49	4.2	600	0.25	0.1	23
MMBZ5257B	CA	33	31.35...34.65	3.8	58	3.8	700	0.25	0.1	25
MMBZ5258B	CB	36	34.2...37.8	3.4	70	3.4	700	0.25	0.1	27
MMBZ5259B	CC	39	37.05...40.95	3.2	80	3.2	800	0.25	0.1	30
MMBZ5260B	CD	43	40.85...45.15	3	93	3	800	0.25	0.1	33
MMBZ5261B	CE	47	44.65...49.35	2.7	105	2.7	1000	0.25	0.1	36

¹⁾ Tested with pulses $t_p = 20\text{ ms}$.



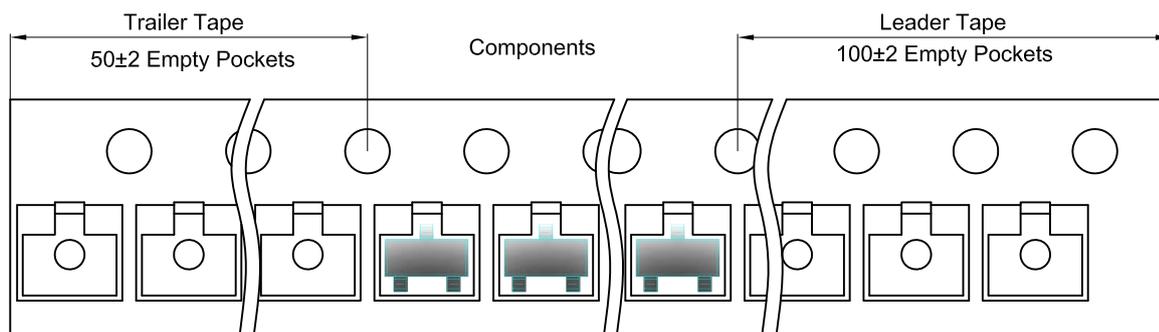
SOT-23 Tape and Reel

SOT-23 Embossed Carrier Tape

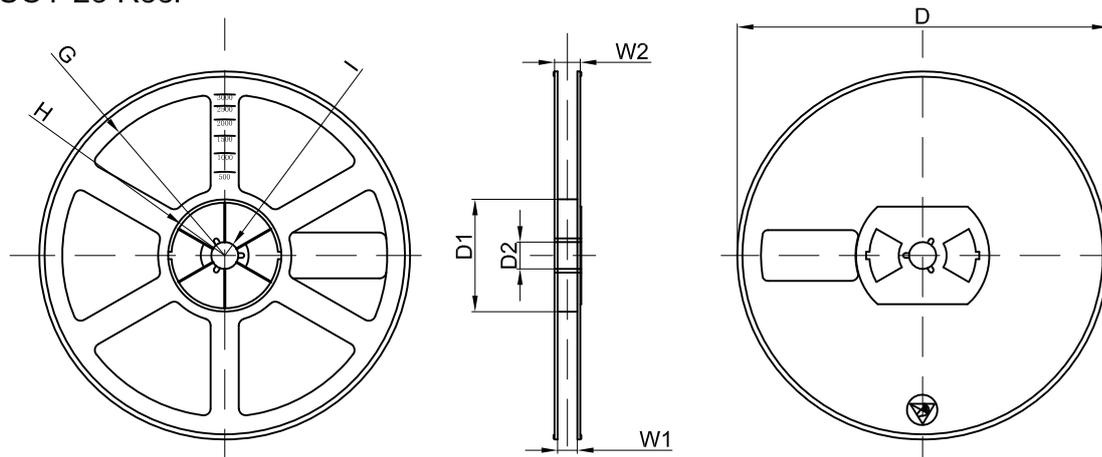


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-23 Tape Leader and Trailer

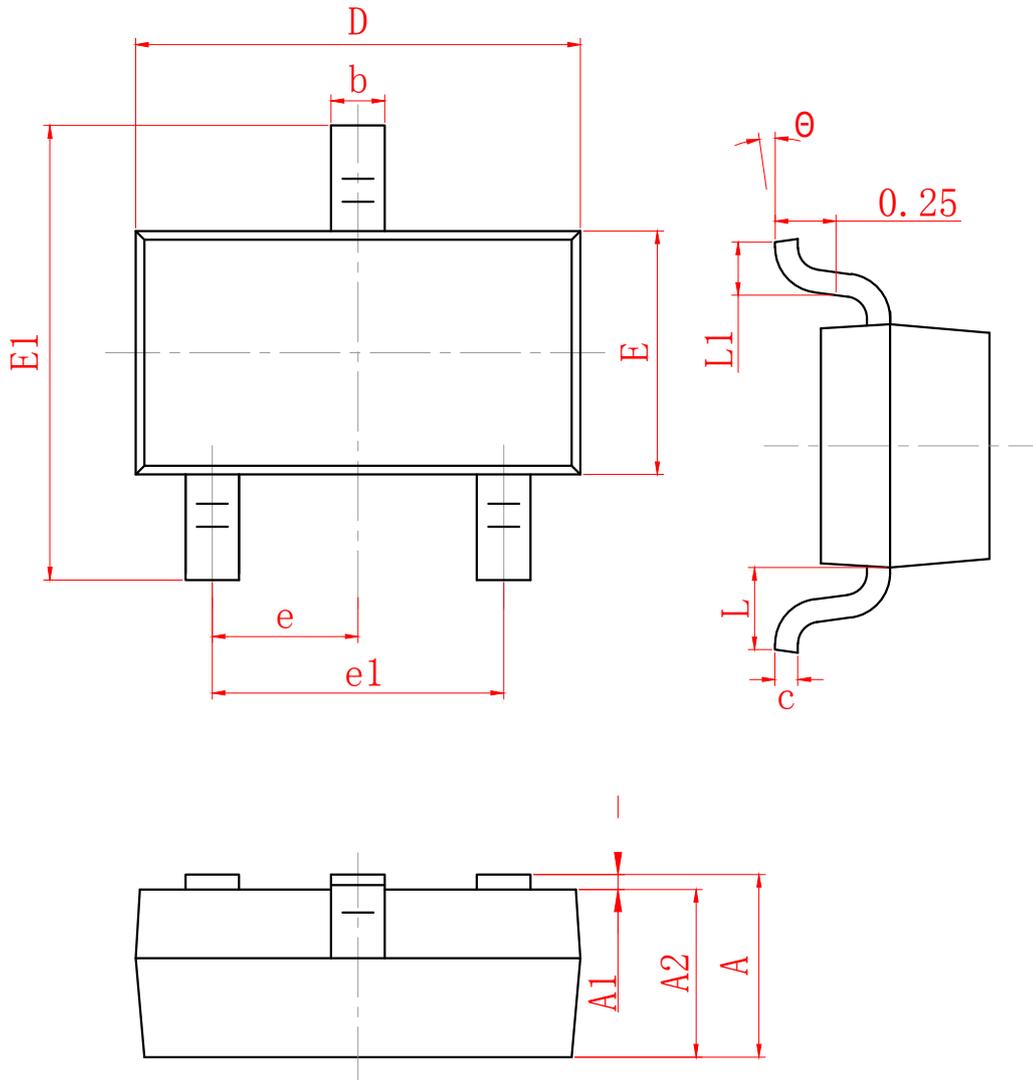


SOT-23 Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7" Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	



SYMBOL	MILLIMETER	
	MIN	MAX
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950 TYP	
e1	1.800	2.000
L	0.550 REF	
L1	0.300	0.500
θ	0°	8°

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