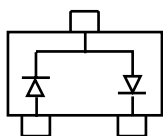


FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance



SOT-23



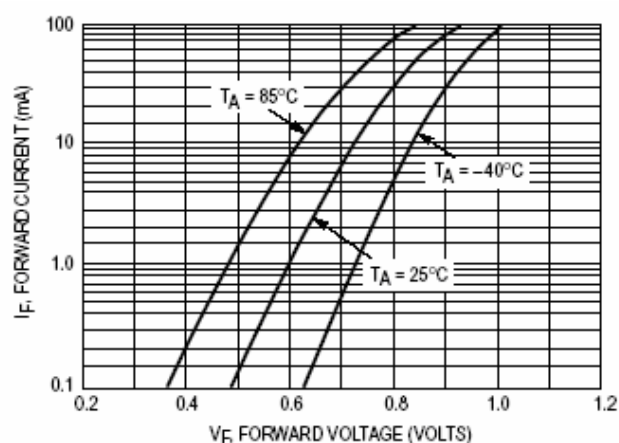
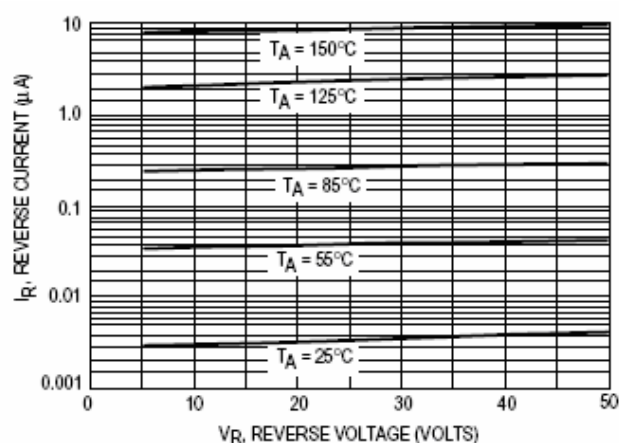
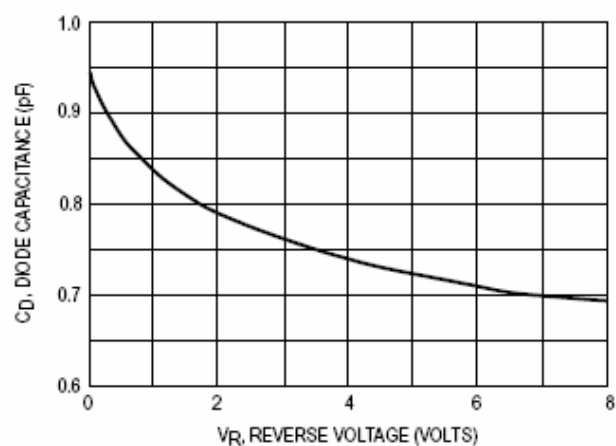
BAV99-TP-CN Marking: A7

Maximum Ratings @T_A=25°C

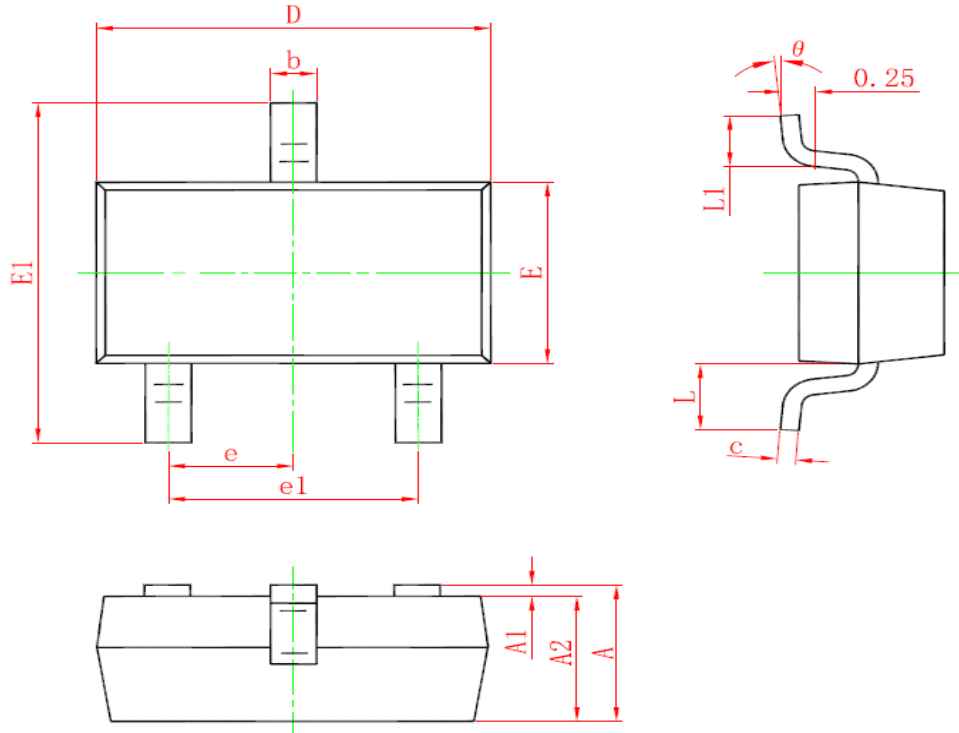
Parameter	Symbol	Limits	Unit
Reverse voltage	V _R	70	V
Forward Current	I _F	200	mA
Peak Forward Surge Current	I _{FM(surge)}	500	mA
Power Dissipation	P _D	225	mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	556	°C/W
Junction temperature	T _J	150	°C
Storage temperature range	T _{STG}	-55-150	°C

Electrical Characteristics @T_A=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	V _R	70			V	I _R =100μA
Forward voltage	V _{F1}			0.715	V	I _F =1mA
	V _{F2}			0.855	V	I _F =10mA
	V _{F3}			1	V	I _F =50mA
	V _{F4}			1.25	V	I _F =150mA
Reverse current	I _R			2.5	μA	V _R =70V
Capacitance between terminals	C _T			1.5	pF	V _R =0, f=1MHz
Reverse recovery time	t _{rr}			6	ns	I _F = I _R = 10mA, I _{rr} = 0.1 x I _R , R _L = 100Ω


Figure 1. Forward Voltage

Figure 2 Leakage Current

Figure 3 Capacitance

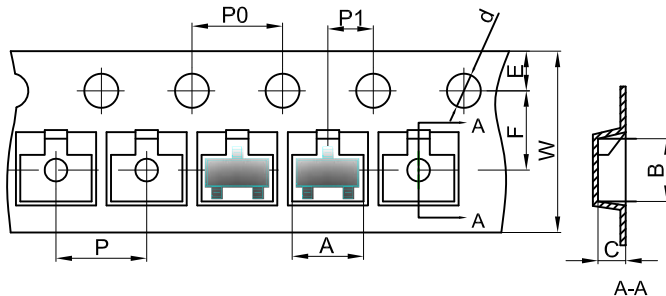
Package Outline Dimensions (Units: mm)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.079
θ	0°	8°	0°	8°

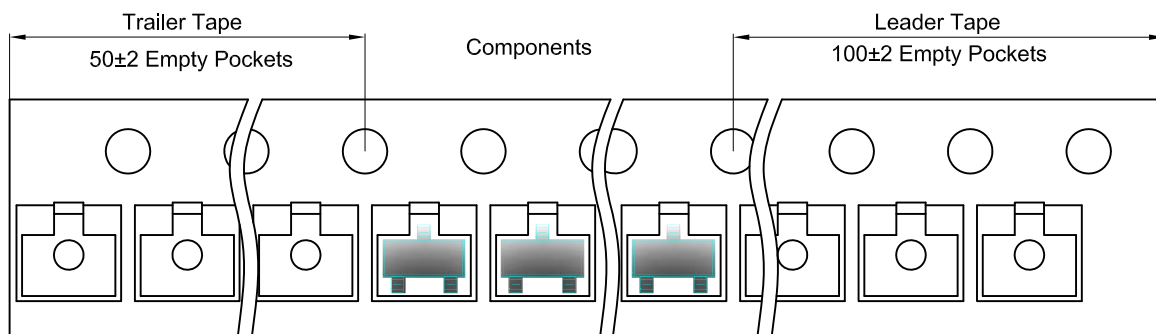
SOT-23 Tape and Reel

SOT-23 Embossed Carrier Tape

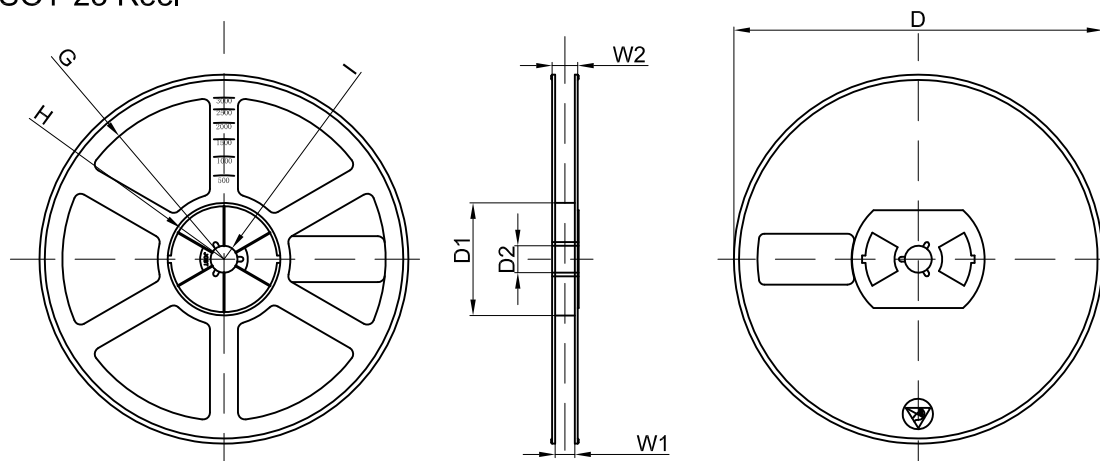


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

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	192x182x182	180,000 pcs	400x385x385	

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