

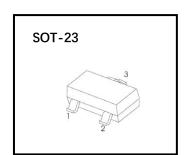
JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

AD-BAW56/V70/V99 Plastic-Encapsulated Diode

AD-BAW56/V70/V99 Switching diode

FEATURES

- High switching speed
- For general purpose switching applications
- High conductance
- AEC-Q101 qualified



MARKING AND EQUIVALENT CIRCUIT

AD-B	AW56	AD-B	AV70	AD-BAV99		
Marking	Equivalent circuit	Marking	Equivalent circuit	Marking AD-BAV70	Equivalent circuit	
Ā1	1 0 3	Ā4	100000000000000000000000000000000000000	Ā7	1 0 3	

 \bar{A}^* = Device code

MAXIMUM RATINGS (T_j = 25°C unless otherwise specified)

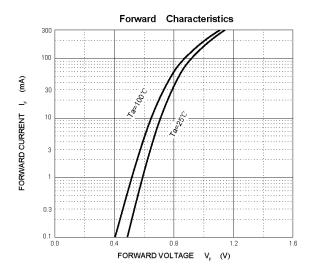
Parameter	Symbol	Value	Unit
Peak repetitive reverse voltage	V_{RRM}	70	V
Forward continuous current	I _{FM}	200	mA
Non-repetitive peak forward surge current @ t = 8.3ms	I _{FSM}	2	Α
Power dissipation	P_D	225	mW
Thermal resistance from junction to ambient	R _{θJA} ¹⁾	556	°C/W
Operating junction and storage temperature range	T _j , T _{stg}	-55 ~ 150	°C

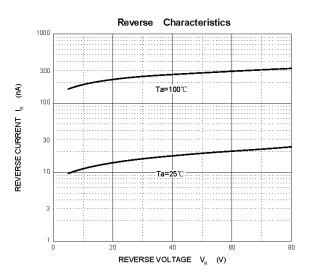
ELECTRICAL CHARACTERISTICS (Tj = 25°C unless otherwise specified)

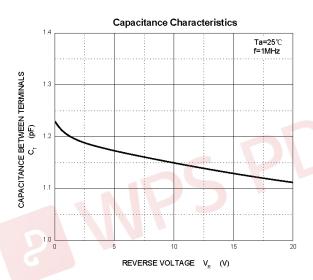
Parameter	Symbol	Test condition	Min	Тур	Max	Unit
Reverse breakdown voltage	V_{BR}	$I_R = 100 \mu A$	70			V
	V_{F1}	I _F = 1mA	ı	-	0.715	
Forward voltage	V _{F2}	I _F = 10mA	-	-	0.855	
Forward voltage	V _{F3}	I _F = 50mA	-		1	V
	V _{F4}	I _F = 150mA			1.25	
Reverse current	I _R	V _R = 70V		1-/	2.5	μA
Capacitance between terminals	Ст	V _R = 0V, f = 1MHz	3-1	-	1.5	pF
Reverse recovery time	t _{rr}	$I_F = I_R = 10 \text{mA}, I_{rr} = 1 \text{mA}, R_L = 100 \Omega$	-	-	6	ns

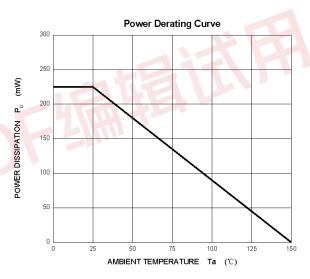
¹⁾ Measured with the device mounted on 1 inch² FR-4 board with 1oz. single-side copper, in a still air environment with $T_a = 25$ °C.

TYPICAL CHARACTERISTICS

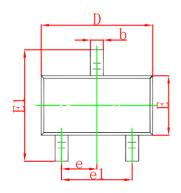


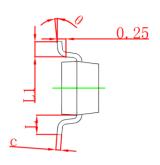


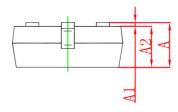




SOT-23 PACKAGE OUTLINE DIMENSIONS

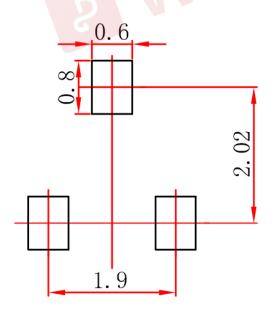






Combal	Dimensions	In Millimeters	Dimensions In Inches			
Symbol	Min	Max	Min	Max		
Α	0.900	1.150	0.035	0.045		
A1	0.000	0.100	0.000	0.004		
A2	0.900	1.050	0.035	0.041		
b	0.300	0.500	0.012	0.020		
С	0.080	0.150	0.003	0.006		
D	2.800	3.000	0.110	0.118		
E	1.200	1.400	0.047	0.055		
E1	2.250	2.550	0.089	0.100		
е	0.950	TYP	0.037	7 TYP		
e1	1.800	2.000	0.071	0.079		
L	0.550	REF	0.022	REF		
L1	0.300	0.500	0.012	0.020		
θ	0°	8°	0°	8°		

SOT-23 SUGGESTED PAD LAYOUT

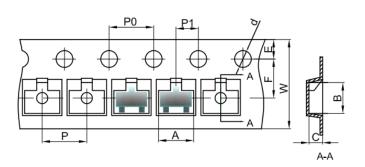


Note:

- 1. Controlling dimension in millimeters.
- 2. General tolerance: ±0.05mm.
- 3. The pad layout is for reference purpose only.

SOT-23 TAPE AND REEL

SOT-23 Embossed Carrier Tape

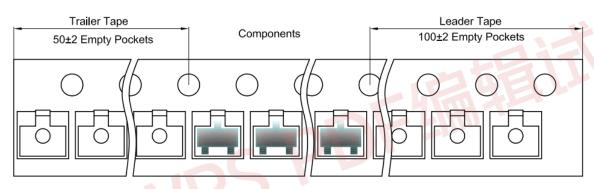


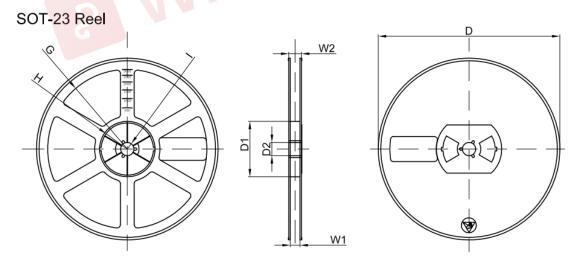
Packaging Description:

SOT-23 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000 units per 7" or 17.8cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

	Dimensions are in millimeter									
Pkg type A B C d E F P0 P P1 W							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





Dimensions are in millimeter									
Reel Option	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	Вох	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	

PUBLISHED BY

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