

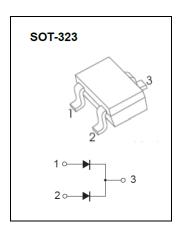
JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

AD-BAV70W Plastic-Encapsulated Diode

AD-BAV70W Switching diode

FEATURES

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



MARKING



KJA = Device code

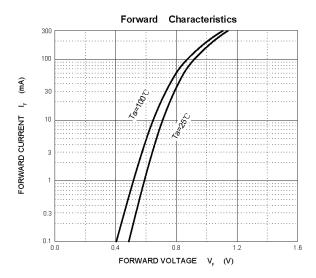
MAXIMUM RATINGS (T_j = 25°C unless otherwise specified)

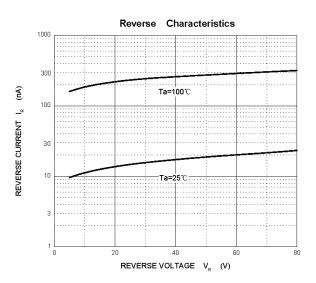
Parameter	Symbol	Value	Unit
Non-repetitive peak reverse voltage	V _{RM}	100	V
Peak repetitive peak reverse voltage	V_{RRM}	75	V
Working peak reverse voltage	V_{RWM}	75	V
DC blocking voltage	V_{R}	75	V
RMS reverse voltage	V _{R(RMS)}	53	V
Forward continuous current	I _{FM}	300	mA
Non-repetitive peak forward surge current @ t = 8.3ms	I _{FSM}	2.0	Α
Average rectified output current	lo	150	mA
Power dissipation	P _D	200	mW
Thermal resistance from junction to ambient	R _{θJA}	625	°C/W
Operating junction and storage temperature range	T _j , T _{stg}	-55 ~ 150	°C

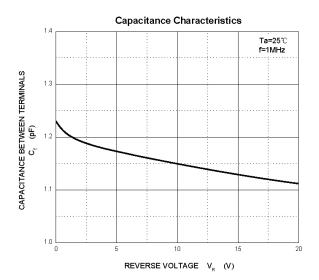
ELECTRICAL CHARACTERISTICS ($T_j = 25^{\circ}C$ unless otherwise specified)

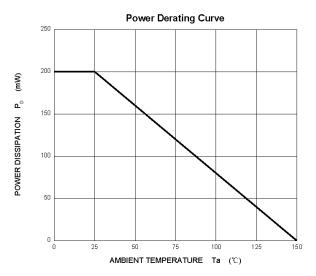
Parameter	Symbol	Test condition	Min	Тур	Max	Unit
Reverse breakdown voltage	V_{BR}	I _R = 100μA	75			V
	V _{F1}	V _{F1} I _F = 1mA		-	0.715	
Forward voltage	V _{F2}	I _F = 10mA	-	-	0.855	V
	V _{F3}	I _F = 50mA	-	-	1	V
	V _{F4}	I _F = 150mA	-	-	1.25	
Reverse current	I _{R1}	V _R = 75V	-	-	2.5	μA
Reverse current	I _{R2}	V _R = 25V	-	-	25	nA
Capacitance between terminals	Ст	V _R = 0V, f = 1MHz	-	-	2	pF
Reverse recovery time	t _{rr}	$I_F = I_R = 10 \text{mA}, I_{rr} = 1 \text{mA}, R_L = 100 \Omega$	-	-	4	ns

TYPICAL CHARACTERISTICS

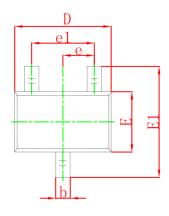


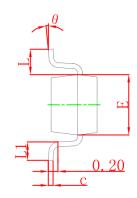


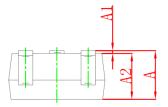




SOT-323 PACKAGE OUTLINE DIMENSIONS

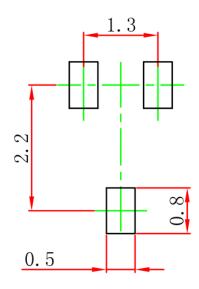






Cumbal	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.100	0.035	0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.000	0.035	0.039	
b	0.200	0.400	0.008	0.016	
С	0.080	0.150	0.003	0.006	
D	2.000	2.200	0.079	0.087	
Е	1.150	1.350	0.045	0.053	
E1	2.150	2.450	0.085	0.096	
е	0.650	0.650 TYP		3 TYP	
e1	1.200	1.400	0.047	0.055	
L	0.525	0.525 REF		REF	
L1	0.260	0.460	0.010	0.018	
θ	0°	8°	0°	8°	

SOT-323 SUGGESTED PAD LAYOUT

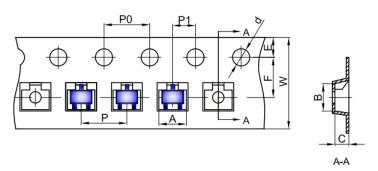


Note:

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

SOT-323 TAPE AND REEL

SOT-323 Embossed Carrier Tape

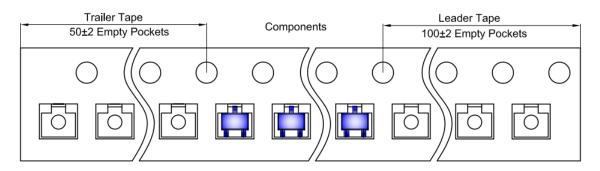


Packaging Description:

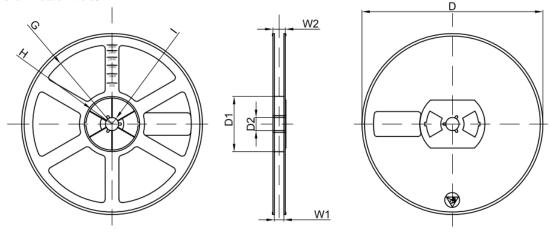
SOT-323 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts 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-323	2.25	2.55	1.19	Ø1.55	1.75	3.50	4.00	4.00	2.00	8.00

SOT-323 Tape Leader and Trailer







Dimensions are in millimeter									
Reel Option	D	D1	D2	G	Н	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

JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

13th Floor, C Block, Tengfei Building, Yan Chuang Yuan, Nanjing Jiangbei New Area, China

LEGAL DISCLAIMER

The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples, hints or typical values stated herein and/or any information regarding the application of the device, JSCJ hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

In addition, any information given in this document is subject to customer's compliance with its obligations stated in this document and any applicable legal requirements, norms and standards concerning customer's products and any use of the product of JSCJ in customer's applications.

The data contained in this document is exclusively intended for technically trained staff. It is the responsibility of customer's technical departments to evaluate the suitability of the product for the intended application and the completeness of the product information given in this document with respect to such application.

INFORMATION

For further information on technology, delivery terms and conditions as well as prices, please contact your nearest JSCJ office (www.jscj-elec.com).

WARNINGS

Due to technical requirements, products may contain dangerous substances. For information on the types in question, please contact your nearest JSCJ office.

Except as otherwise explicitly approved by JSCJ in a written document signed by authorized representatives of JSCJ, JSCJ's products may not be used in any applications where a failure of the product or any consequences of the use thereof can reasonably be expected to result in personal injury.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching category:

Click to view products by Changjing Electronics Technology manufacturer:

Other Similar products are found below:

MCL4151-TR3 MMBD3004S-13-F RD0306T-H 1N3611 NTE156A NTE574 NTE6244 1SS193,LF 1SS400CST2RA SDAA13

SHN2D02FUTW1T1G LS4151GS08 1N4449 1N456A 1N4934-E3/73 1N914BTR RFUH20TB3S D291S45T BAV300-TR BAW56DWQ
7-F BAW56M3T5G BAW75-TAP MM230L-CAA IDW40E65D1 JAN1N3600 JAN1N4454UR-1 LL4151-GS18 SMMSD4148T3G

BYW95B/A52A NSVDAN222T1G CDSZC01100-HF LL4150-M-08 1N4454-TR BAV70HDW-7 BAS28-7 JANTX1N6640 BAW56HDW
13 BAS28 TR VS-HFA04SD60STR-M3 NSVM1MA152WKT1G 1SS388-TP RGP30D-E3/73 VS-8EWF02S-M3 BAV99TQ-13-F

BAV99HDW-13 MMDB30-E28X IDP20C65D2XKSA1 LS4148 IDV15E65D2 NSVM1MA152WAT1G