

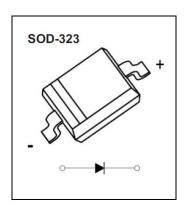
JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

AD-BAS316 Plastic-Encapsulated Diode

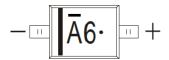
AD-BAS316 Switching diode

FEATURES

- Very small plastic package
- High switching speed
- AEC-Q101 qualified



MARKING



A6• = Device code
The marking bar indicates the cathode

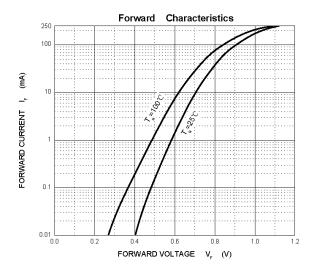
MAXIMUM RATINGS (T_j = 25°C unless otherwise specified)

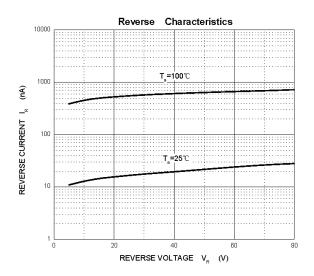
Parameter	Symbol	Value	Unit
Peak repetitive reverse voltage	V_{RRM}	85	V
DC blocking voltage	V _R	75	V
Continuous forward current	I _O	250	mA
Non-repetitive peak forward surge current @ t = 8.3ms	I _{FSM}	2	Α
Power dissipation	P _D	250	mW
Thermal resistance from junction to ambient	R _{0JA} 1)	500	°C/W
Operating junction and storage temperature range	T_j , T_stg	-55 ~ 150	°C

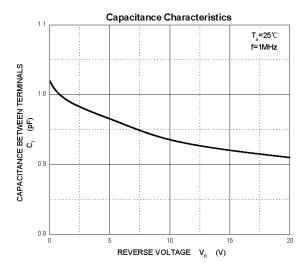
ELECTRICAL CHARACTERISTICS (T_j = 25°C unless otherwise specified)

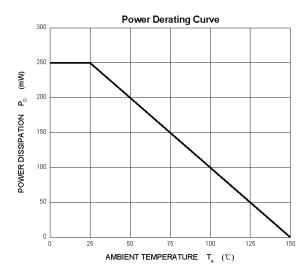
Parameter	Symbol	Test condition	Min	Тур	Max	Unit	
Reverse voltage	$V_{(BR)}$	I _R = 100μA	100	-	-	V	
Reverse current	1_	V _R = 25V	-	-	30	nA	
Reverse current	I _R	V _R = 75V	-	-	1	μA	
	V _{F1}	I _F = 1mA	-	-	0.715		
Forward voltage	V _{F2}	I _F = 10mA	-	-	0.855	1 V	
Forward voltage	V _{F3}	I _F = 50mA	-	-	1		
	V _{F4}	I _F = 150mA	-	-	1.25		
Total capacitance	Ctot	V _R = 0V, f = 1MHz	-	-	1.5	pF	
Reverse recovery time	t _{rr}	$I_F = I_R = 10 \text{mA}, I_{rr} = 1 \text{mA}$	-	-	4	ns	

TYPICAL CHARACTERISTICS

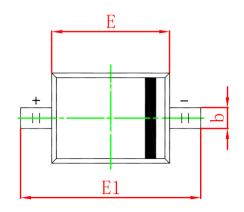


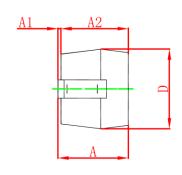


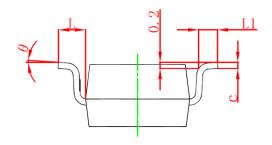




SOD-323 PACKAGE OUTLINE DIMENSIONS

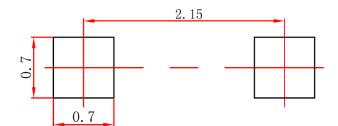






Cumbal	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α		1.100		0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.800	1.000	0.031	0.039	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.500	2.750	0.098	0.108	
L	0.475	REF	0.019	REF	
L1	0.250	0.400	0.010	0.016	
θ	0°	8°	0°	8°	

SOD-323 SUGGESTED PAD LAYOUT

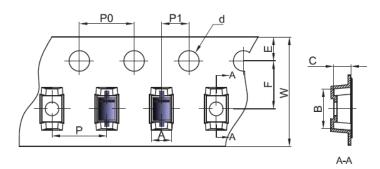


Note:

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

SOD-323 TAPE AND REEL

SOD-323 Embossed Carrier Tape

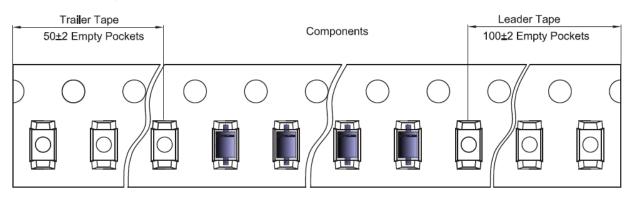


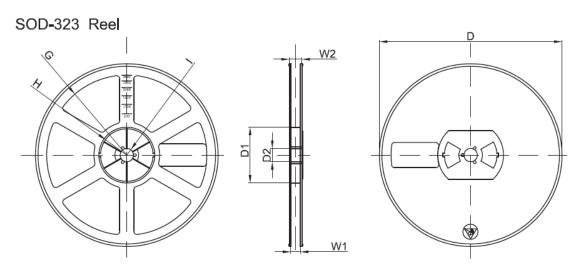
Packaging Description:

SOD-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	Α	В	С	d	E	F	P0	Р	P1	W
SOD-323										

SOD-323 Tape Leader and Trailer





Dimensions are in millimeter										
Reel Option	D	D1	D2	G	Н	I	W1	W2		
7"D i a	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	

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.