

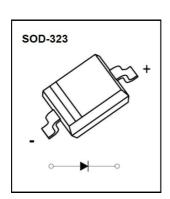
JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

AD-B16WS Plastic-Encapsulated Diode

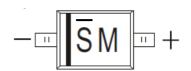
AD-B16WS Schottky barrier diode

FEATURES

- Guard ring protection
- Low voltage
- For use in low voltage, high frequency inverters
- High surge current capability
- AEC-Q101 qualified



MARKING



SM= Device code
The marking bar indicates the cathode

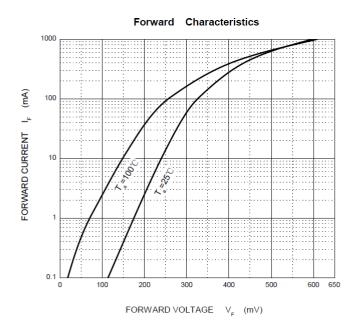
MAXIMUM RATINGS (T_j = 25°C unless otherwise specified)

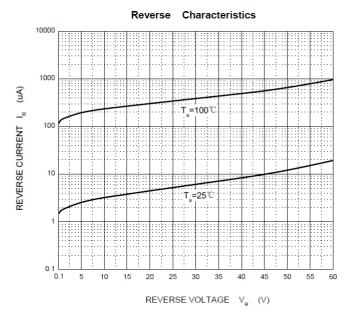
Parameter	Symbol	Value	Unit
Peak repetitive peak reverse voltage	V_{RRM}	60	V
Working peak reverse voltage	V_{RWM}	42	V
Maximum DC blocking voltage	V_{DC}	60	V
Forward current	l _F	1	Α
Non-repetitive peak forward surge current @ t = 8.3ms	I _{FSM}	10	Α
Power dissipation	P _D	250	mW
Thermal resistance from junction to ambient	RθJA	400	°C/W
Operating junction temperature range	Tj	-40 ~ 125	°C
Storage temperature range	T _{stg}	-55 ~ 150	°C

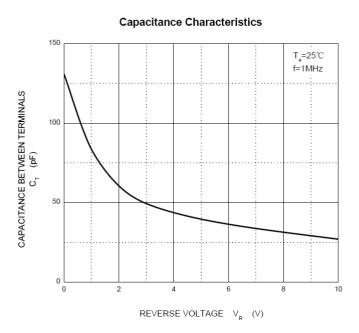
ELECTRICAL CHARACTERISTICS ($T_j = 25$ °C unless otherwise specified)

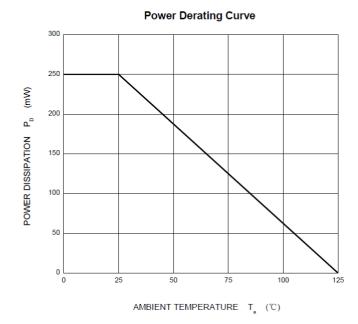
Parameter	Symbol	Test condition	Min	Тур	Max	Unit
Forward voltage	V _F	I _F = 1A	-	-	0.7	V
Reverse current	I _R	$V_R = 60V$	-	-	0.1	mA
Capacitance between terminals	Ст	$V_R = 4V$, $f = 1MHz$	-	-	120	pF

TYPICAL CHARACTERISTICS

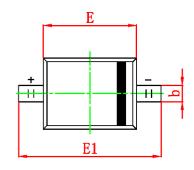


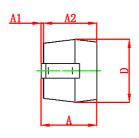


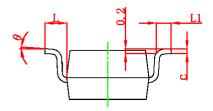




SOD-323 PACKAGE OUTLINE DIMENSIONS

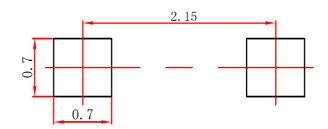






Cumbal	Dimensions	In Millimeters	Dimension	s In Inches
Symbol	Min	Max	Min	Max
Α		1.100		0.043
A1	0.000	0.100	0.000	0.004
A2	0.800	1.000	0.031	0.039
b	0.250	0.350	0.010	0.014
С	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
Е	1.600	1.800	0.063	0.071
E1	2.500	2.750	0.098	0.108
Ĺ	0.475 REF		0.019	REF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

SOD-323 SUGGESTED PAD LAYOUT

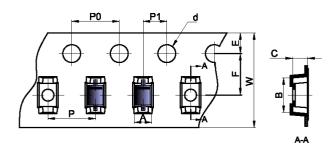


Note:

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

SOD-323 TAPE AND REEL

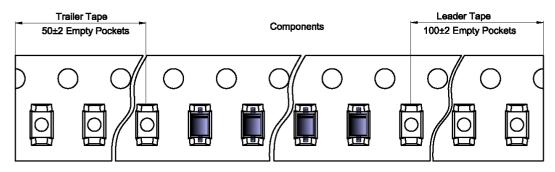
SOD-323 Embossed Carrier Tape

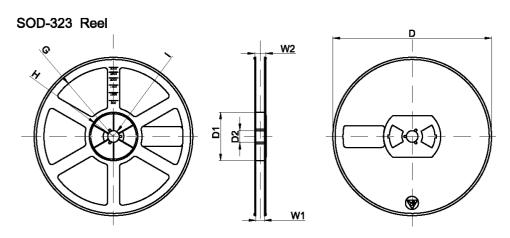


Packaging Description:
SOD-323 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard ontion are shipped with 3,000 units per 7°. 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		
SOD-323	1.48	3.3	1.25	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOD-323 Tape Leader and Trailer





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

ſ	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.