

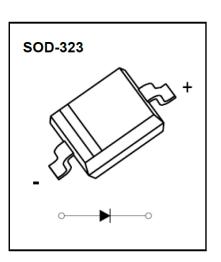
JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

AD-SD106WS Plastic-Encapsulated Diode

AD-SD106WS Schottky barrier diode

FEATURES

- Microminiature plastic package
- Low voltage
- Fast switching
- This device is protected by a PN junction guard ring against excessive voltage, such as electrostatic discharge
- Ideal for protection of MOS devices, steering, biasing, and coupling diodes for fast switching and low logic level applications
- AEC-Q101 qualified



MARKING



S21 = Device code

The marking bar indicates the cathode

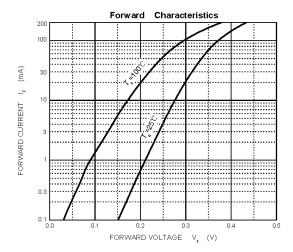
MAXIMUM RATINGS (T_j = 25°C unless otherwise specified)

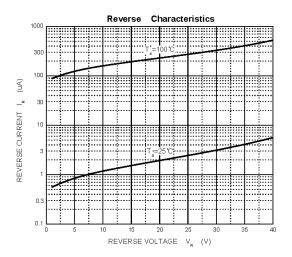
Parameter	Symbol	Value	Unit	
Non-repetitive peak reverse voltage	V _{RM}	30	V	
Forward current	I _{FM}	0.2	Α	
Non-repetitive peak forward surge current @ t = 8.3ms	I _{FSM}	1	Α	
Power dissipation	P _{tot}	250	mW	
Thermal resistance from junction to ambient	Reja	400	°C/W	
Operating junction temperature range	Tj	-40 ~ 125	°C	
Storage temperature range	T _{stg}	-55 ~ 150	°C	

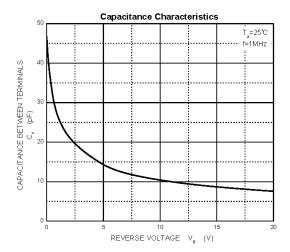
ELECTRICAL CHARACTERISTICS ($T_j = 25^{\circ}C$ unless otherwise specified)

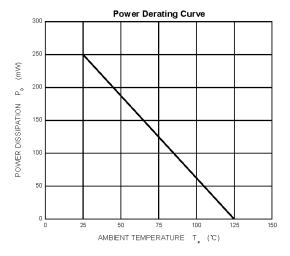
Parameter	Symbol	Test condition	Min	Тур	Max	Unit
Reverse breakdown voltage	V_{R}	I _R = 100μA	30			V
		I _F = 2mA		260		mV
Forward voltage	\ <i>\</i> _	I _F = 15mA		320		
Forward voltage	V _F	I _F = 100mA		420		IIIV
		I _F = 200 mA		490	550	
Reverse current	I _R	V _R = 30V			5	μΑ
Capacitance between terminals	Ст	V _R = 10V, f = 1MHz	_		15	pF

TYPICAL CHARACTERISTICS

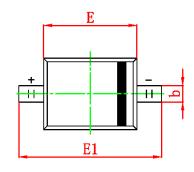


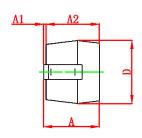


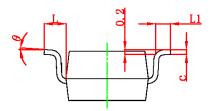




SOD-323 PACKAGE OUTLINE DIMENSIONS

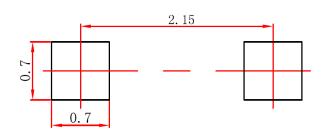






Cumbal	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α		1.100		0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.800	1.000	0.031	0.039	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.500	2.750	0.098	0.108	
L	0.475	REF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

SOD-323 SUGGESTED PAD LAYOUT



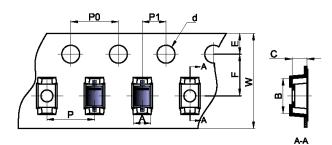
Note:

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

AD-SD106WS www.jscj-elec.com

SOD-323 TAPE AND REEL

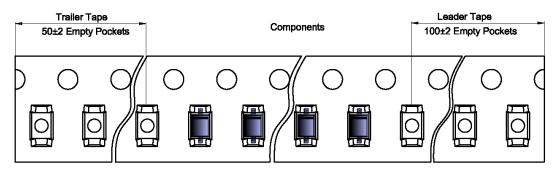
SOD-323 Embossed Carrier Tape

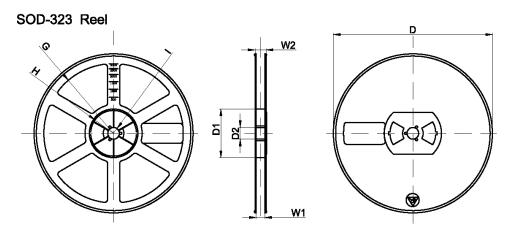


Packaging Description:
SOD-323 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. 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

Dimensions are in millimeter										
Pkg type	Α	В	С	d	Е	F	P0	P	P1	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	н	I	W1	W2	
7"Dla	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)
ſ	3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

PUBLISHED BY

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