

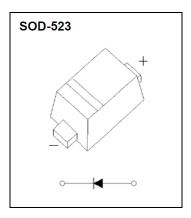
JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

AD-RB520S-30 Plastic-Encapsulated Diode

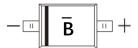
AD-RB520S-30 Schottky barrier diode

FEATURES

- Small surface mounting type
- Low I_R
- AEC-Q101 qualified



MARKING



B = Device code

The marking bar indicates the cathode

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

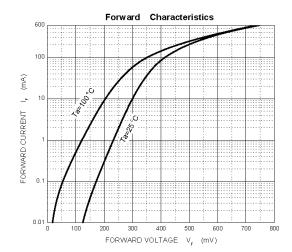
Parameter	Symbol	Value	Unit
DC blocking voltage	V _R	30	V
Mean rectifying current	lo	200	mA
Non-repetitive peak forward surge current @ t = 8.3ms	I _{FSM}	1	Α
Power dissipation	P _D	150	mW
Thermal resistance from junction to ambient	R ₀ JA 1)	667	°C/W
Operating junction temperature range	Tj	-40 ~ 125	°C
Storage temperature range	T _{stg}	-55 ~ 150	°C

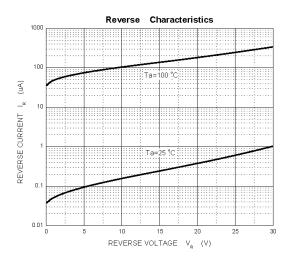
ELECTRICAL CHARACTERISTICS ($T_j = 25$ °C unless otherwise specified)

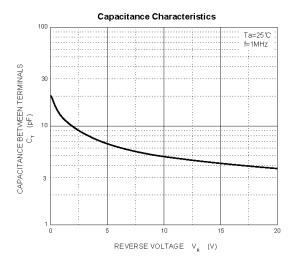
Parameter	Symbol	Test condition	Min	Тур	Max	Unit
Forward voltage	V_{F}	I _F = 200mA	-		0.6	V
Reverse current	I _R	V _R = 10V	ı	1	1	μA

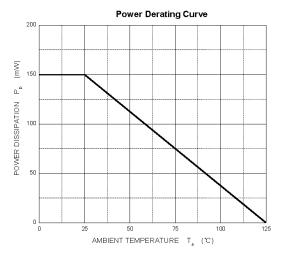
¹⁾ Measured with the device mounted on 1 inch 2 FR-4 board with 1oz. single-side copper, in a still air environment with T_a = 25 $^{\circ}$ C.

TYPICAL CHARACTERISTICS

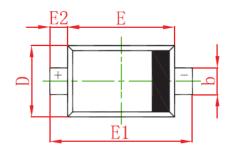


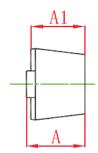


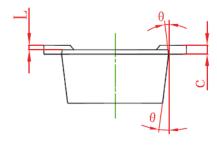




SOD-523 PACKAGE OUTLINE DIMENSIONS

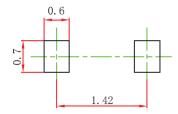






Symbol	Dimensions	In Millimeters	Dimension	sions In Inches		
Symbol	Min	Max	Min	Max		
Α	0.510	0.770	0.020	0.031		
A1	0.500	0.700	0.020	0.028		
b	0.250	0.350	0.010	0.014		
С	0.080	0.150	0.003	0.006		
D	0.750	0.850	0.030	0.033		
E	1.100	1.300	0.043	0.051		
E1	1.500	1.700	0.059	0.067		
E2	0.20	REF 0.008 RE		8 REF		
L	0.010	0.070	0.001	0.003		
θ	7°	REF	7°	REF		

SOD-523 SUGGESTED PAD LAYOUT



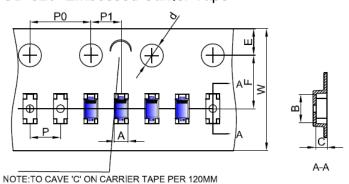
Note:

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

AD-RB520S-30 www.jscj-elec.com

SOD-523 TAPE AND REEL

SOD-523 Embossed Carrier Tape

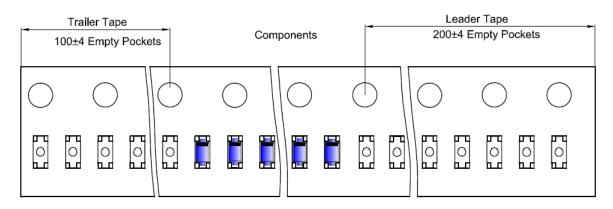


Packaging Description:

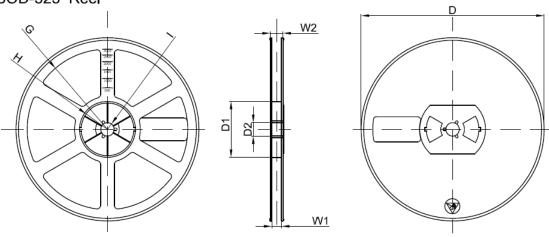
SOD-523 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 8,000 units per 7" or 17.8cm dlameter 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-523	0.9	1,94	0.73	Ø1.50	1.75	3,50	4.00	2.00	2.00	8.00

SOD-523 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)
8000 pcs	7 inch	120,000 pcs	203×203×195	480,000 pcs	438×438×220	

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