

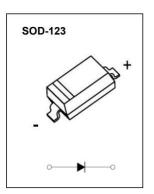
JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

AD-RB160M-30 Plastic-Encapsulated Diode

AD-RB160M-30 Schottky barrier diode

FEATURES

- Small current rectification
- Low voltage
- AEC-Q101 qualified



MARKING



73 = Device code
The marking bar indicates the cathode

AD-RB160M-30 www.jscj-elec.com

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

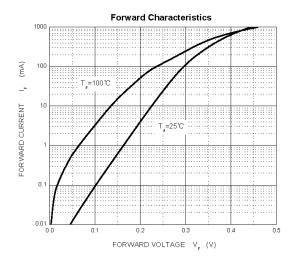
Parameter	Symbol	Value	Unit
DC blocking voltage	V_{R}	30	V
Forward current	lo	1	Α
Non-repetitive peak forward surge current @ t = 8.3ms	I _{FSM}	15	Α
Power dissipation	P_D	450	mW
Thermal resistance from junction to ambient	R _{θJA} ¹⁾	222	°C/W
Operating junction temperature range	Tj	-40 ~ 125	°C
Storage temperature range	T _{stg}	-55 ~ 150	°C

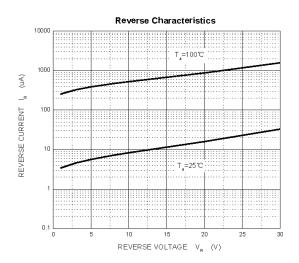
ELECTRICAL CHARACTERISTICS (Tj = 25°C unless otherwise specified)

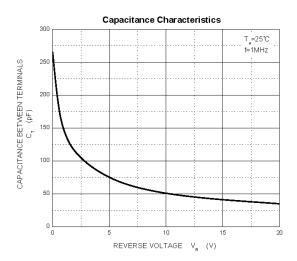
Parameter	Symbol	Test condition		Тур	Max	Unit
Converd voltage	V_{F1}	I _F = 500mA	-	-	0.46	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Forward voltage	V _{F2} ²⁾	I _F = 1000mA	-	-	0.48	V
Deverse current	I _{R1}	V _R = 15V	-	-	20	μΑ
Reverse current	I_{R2}	V _R = 30V	-	-	50	μΑ

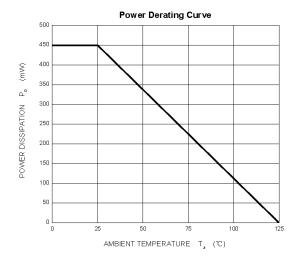
¹⁾ Measured with the device mounted on 1 inch² FR-4 board with 1oz. single-side copper, in a still air environment with $T_a = 25^{\circ}C$. 2) Pulse test.

TYPICAL CHARACTERISTICS

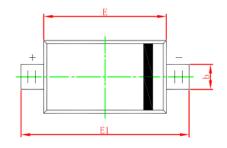


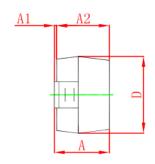


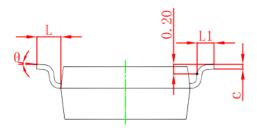




SOD-123 PACKAGE OUTLINE DIMENSIONS

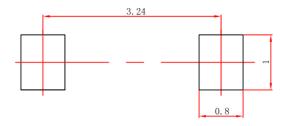






Cumbal	Dimensions	In Millimeters	Dimensions In Inches			
Symbol	Min	Max	Min	Max		
Α	1.050	1.250	0.041	0.049		
A1	0.000	0.100	0.000	0.004		
A2	1.050	1.150	0.041	0.045		
b	0.450	0.650	0.018	0.026		
С	0.080	0.150	0.003	0.006		
D	1.500	1.700	0.059	0.067		
E	2.600	2.800	0.102	0.110		
E1	3.550	3.850	0.140	0.152		
L	0.500 REF		0.020	REF		
L1	0.250	0.450	0.010	0.018		
θ	0°	8°	0°	8°		

SOD-123 SUGGESTED PAD LAYOUT

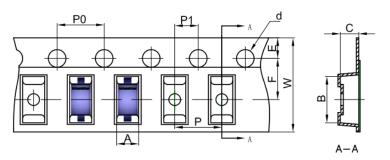


Note:

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

SOD-123 TAPE AND REEL

SOD-123 Embossed Carrier Tape

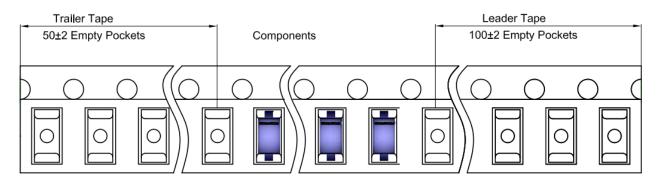


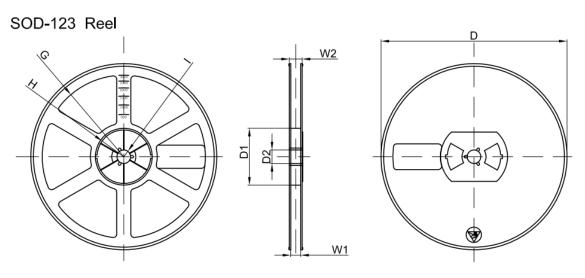
Packaging Description:

SOD-123 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	Pkg type A B C d E F P0 P P1 W									
SOD-123	1.85	3.95	1.57	Ø1.55	1.75	3.50	4.00	4.00	2.00	8.00

SOD-123 Tape Leader and Trailer





Dimensions are in millimeter									
Reel Option D D1 D2 G H I W1 W2									
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

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