

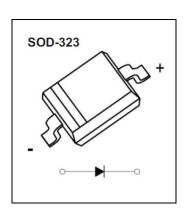
JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

AD-RB501V-40 Plastic-Encapsulated Diode

AD-RB501V-40 Schottky barrier diode

FEATURES

- Low current rectifier schottky diode
- Low voltage, low inductance
- For power supply
- AEC-Q101 qualified



MARKING: 4



The marking bar indicates the cathode

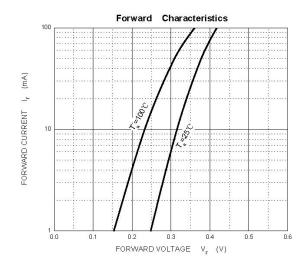
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS, single diode @T_j = 25°C

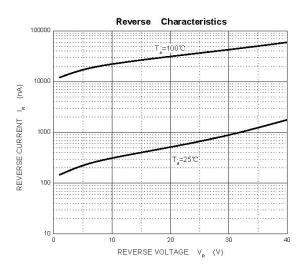
Parameter	Symbol	Value	Unit
Peak reverse voltage	V_{RM}	45	V
DC reverse voltage	V_{R}	40	V
Mean rectifying current	I _O	0.1	Α
Non-repetitive peak forward surge current @ t = 8.3ms	I _{FSM}	1	Α
Power dissipation	P _D	200	mW
Thermal resistance from junction to ambient	Reja	500	°C/W
Operating junction temperature range	Tj	-40 ~ 125	°C
Storage temperature range	T _{stg}	-55 ~ 150	°C

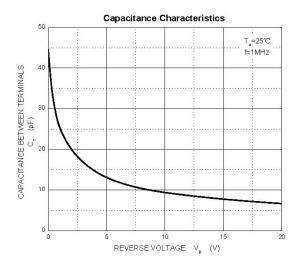
ELECTRICAL RATINGS @Tj = 25°C

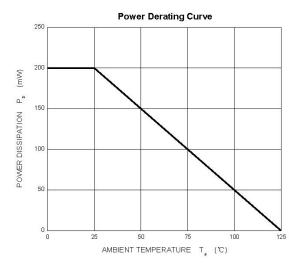
Parameter	Symbol	Test condition	Min	Тур	Max	Unit
Converd voltage	\/	I _F = 100mA	-	-	0.55	V
Forward voltage	V _F	I _F = 10mA	-	-	0.34	
Reverse current	I _R	V _R = 10V	-	-	30	μΑ
Capacitance between terminals	Ст	$V_R = 10V, f = 1MHZ$	-	6	-	pF

TYPICAL CHARACTERISTICS

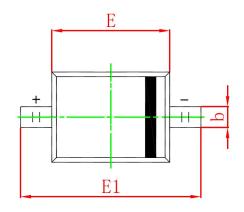


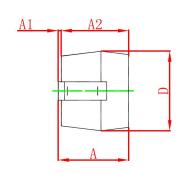


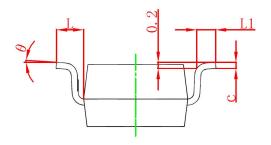




SOD-323 PACKAGE OUTLINE DIMENSIONS

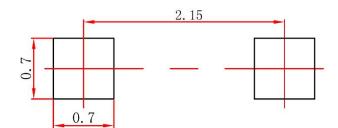






Cumbal	Dimensions	In Millimeters	Dimensions In Inches			
Symbol	Min	Max	Min	Max		
Α		1.100		0.043		
A1	0.000	0.100	0.000	0.004		
A2	0.800	1.000	0.031	0.039		
b	0.250	0.350	0.010	0.014		
С	0.080	0.150	0.003	0.006		
D	1.200	1.400	0.047	0.055		
E	1.600	1.800	0.063	0.071		
E1	2.500	2.750	0.098	0.108		
L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

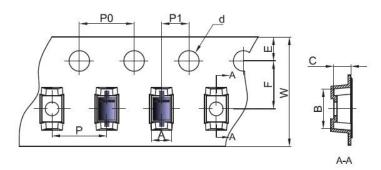


Note:

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

SOD-323 TAPE AND REEL

SOD-323 Embossed Carrier Tape

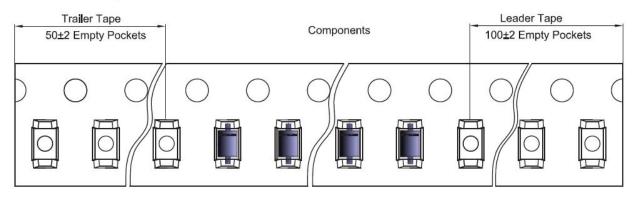


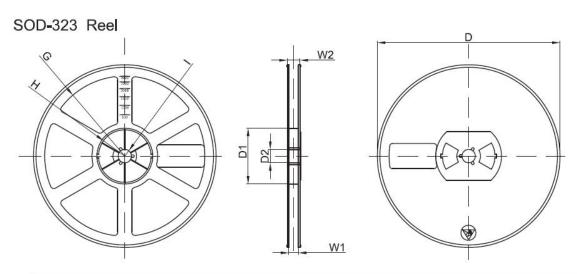
Packaging Description:

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).

		40		Dimensions a	are in millime	ter		87		
Pkg type	Α	В	С	d	E	F	P0	Р	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





	10	8 8	Dimensio	ons are In millime	ter	96B 8		950
Reel Option	D	D1	D2	G	Н	l I	W1	W2
7"D i a	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	

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