

Plastic Package Zener Diode

Preliminary

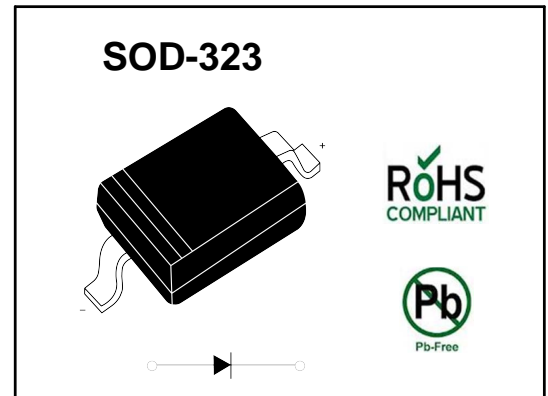
200mW Surface Mount Flat Lead

Features

- Zener voltage range selection, 3.6V to 36V
- Flat lead SOD-323 small outline plastic package.
- Surface device type mounting
- Moisture sensitivity level 1
- Clip bonding construction, good thermal capability
- RoHS compliant
- Matte Tin(Sn) lead finish
- Band indicates cathode

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Type Number	Symbol	Value	Units
Power Dissipation	Pd	200	mW
Junction Temperature Range	T _J	-55 to + 150	°C
Operating and Storage Temperature Range	T _{STG}	-55 to + 150	°C

These ratings are limiting values above which the serviceability of the diode may be impaired.

ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

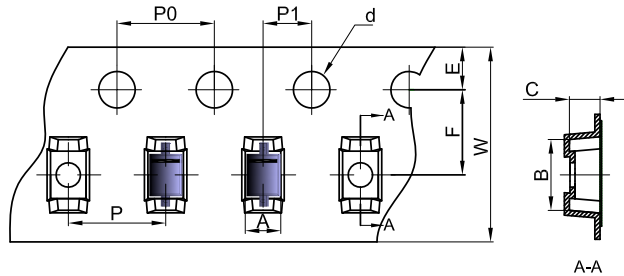
Device	Device Marking	V _Z @ I _{ZT} (Volts)		I _{ZT} mA	Z _{ZT} @ I _{ZT}	I _{ZK} mA	Z _{ZK} @ I _{ZK}	I _R @ V _R	V _R (Volts)
		Min.	Max.		Ω Max.		Ω Max.	(uA) Max.	
UDZS3V6B	D0	3.60	3.85	5.0	90	1.0	600	4.5	1
UDZS3V9B	D1	3.89	4.16	5.0	90	1.0	600	2.7	1
UDZS4V3B	D2	4.17	4.43	5.0	90	1.0	600	2.7	1
UDZS4V7B	D3	4.55	4.75	5.0	80	1.0	500	2.7	1
UDZS5V1B	D4	4.98	5.20	5.0	60	1.0	500	1.8	2
UDZS5V6B	D5	5.49	5.73	5.0	40	1.0	300	0.9	3
UDZS6V2B	D6	6.06	6.33	5.0	40	1.0	150	2.7	3
UDZS6V8B	D7	6.65	6.93	5.0	30	1.0	75	1.8	4
UDZS7V5B	D8	7.28	7.60	5.0	30	1.0	75	0.9	4
UDZS8V2B	D9	8.02	8.36	5.0	30	1.0	75	0.63	5
UDZS9V1B	DA	8.85	9.23	5.0	30	1.0	90	0.45	6
UDZS10VB	DB	9.77	10.21	5.0	20	1.0	150	0.18	7
UDZS11VB	DC	10.76	11.22	5.0	20	1.0	150	0.09	8
UDZS12VB	DE	11.74	12.24	5.0	20	1.0	150	0.09	9
UDZS13VB	DF	12.91	13.49	5.0	40	1.0	160	0.045	10
UDZS15VB	DG	14.34	14.98	5.0	40	1.0	190	0.045	11
UDZS16VB	DH	15.85	16.51	5.0	40	1.0	190	0.045	12
UDZS18VB	DJ	17.56	18.35	5.0	50	1.0	220	0.045	13
UDZS20VB	DK	19.52	20.39	5.0	60	1.0	220	0.045	15
UDZS22VB	DL	21.54	22.47	5.0	80	1.0	240	0.045	17
UDZS24VB	DM	23.72	24.78	5.0	80	1.0	240	0.045	19
UDZS27VB	DN	26.19	27.53	5.0	100	0.5	300	0.045	21
UDZS30VB	DP	29.19	30.69	5.0	100	0.5	300	0.045	23
UDZS33VB	DR	32.15	33.79	5.0	100	0.5	310	0.045	25
UDZS36VB	DS	35.07	36.87	5.0	100	0.5	330	0.045	27

Notes:

1. The zener Voltage (V_Z) is tested under pulse condition of 40mS.
2. For detailed information on price, availability and delivery of nominal zener voltages between the voltages shown and tighter voltage tolerances.
3. The zener impedance is derived from the 60-cycle ac voltage, which results when an ac current having an ms value equal to 10% of the dc zener current (I_{ZT} or I_{ZK}) is superimposed to I_{ZT} or I_{ZK}.

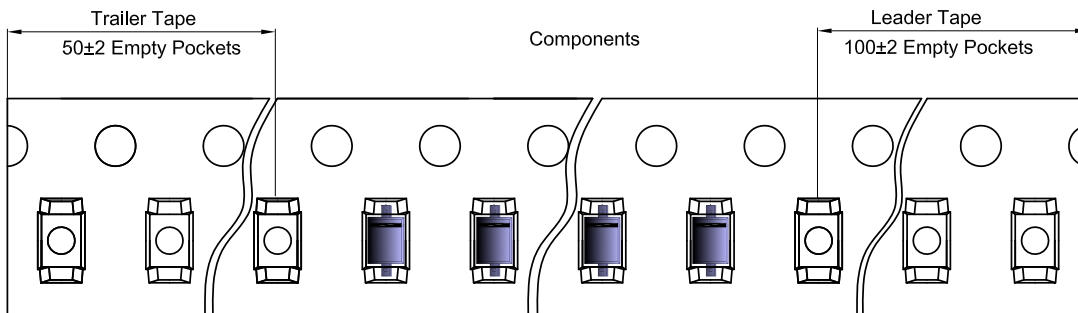
SOD-323 Tape and Reel

SOD-323 Embossed Carrier Tape

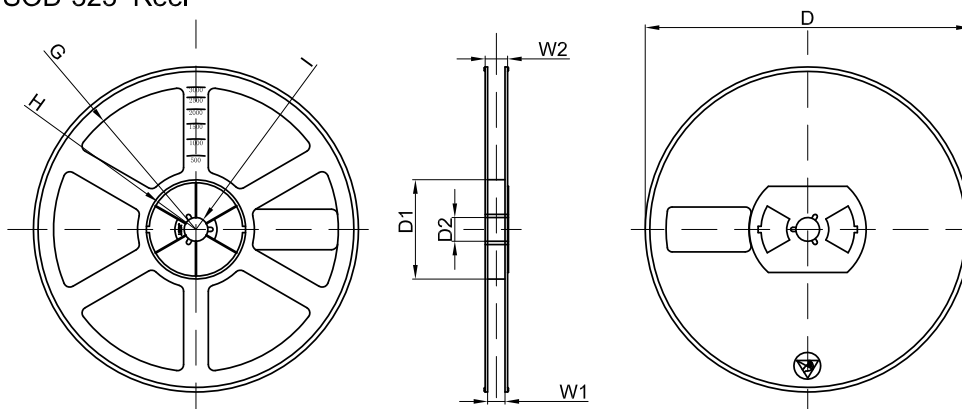


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOD-323	1.48	3.3	1.25	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOD-323 Tape Leader and Trailer



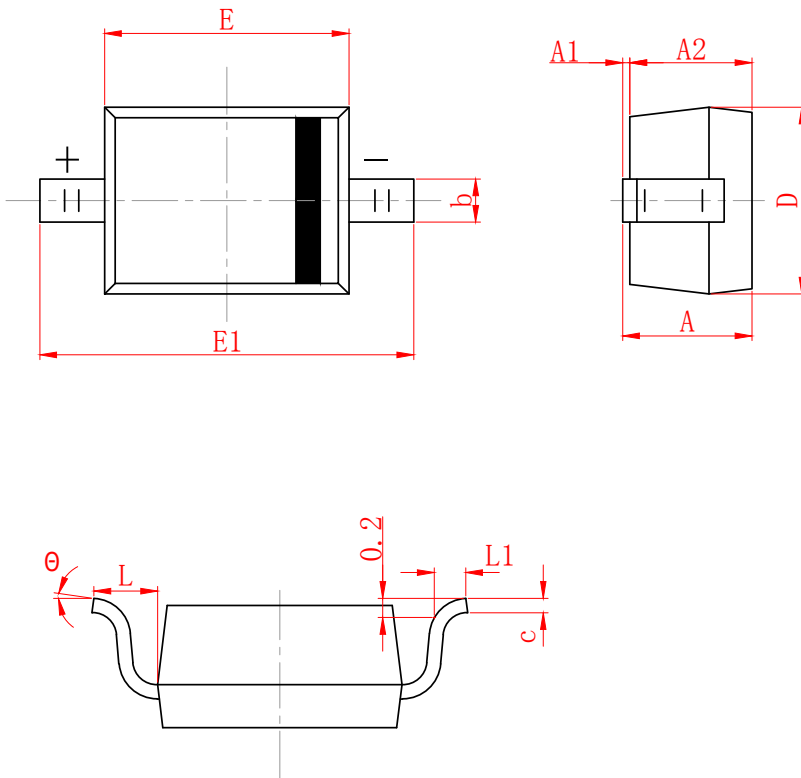
SOD-323 Reel



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	

SOD-323 Package Outline Dimensions



SYMBOL	MILLIMETER	
	MIN	MAX
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.008	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475 (REF)	
L1	0.250	0.400
theta	0°	8°

DISCLAIMER

JHG PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with JHG products. You are solely responsible for

- (1) selecting the appropriate JHG products for your application;
- (2) designing, validating and testing your application;
- (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements.

These resources are subject to change without notice. JHG grants you permission to use these resources only for development of an application that uses the JHG products described in the resource. Other reproduction and display of these resources are prohibited. No license is granted to any other JHG intellectual property right or to any third party intellectual property right. JHG disclaims responsibility for, and you will fully indemnify JHG and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.