

## 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

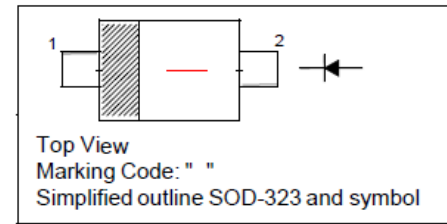
RoHS compliant

Matte Tin(Sn) lead finish

Band indicates cathode

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Dimensions in inches and (millimeters)

## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Type Number	Symbol	Value	Units
Power Dissipation	P <sub>d</sub>	200	mW
Junction Temperature Range	T <sub>J</sub>	-55 to + 150	°C
Operating and Storage Temperature Range	T <sub>STG</sub>	-55 to + 150	°C

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



## UDZS3V6B-UDZS36VB

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

Device	Device Marking	V <sub>Z</sub> @ I <sub>ZT</sub> (Volts)		I <sub>ZT</sub> mA	Z <sub>ZT</sub> @ I <sub>ZT</sub>	I <sub>ZK</sub> mA	Z <sub>ZK</sub> @ I <sub>ZK</sub>	I <sub>R</sub> @ V <sub>R</sub>	V <sub>R</sub> (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<sub>Z</sub>) 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<sub>ZT</sub> or I<sub>ZK</sub>) is superimposed to I<sub>ZT</sub> or I<sub>ZK</sub>.



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**SOD-323**



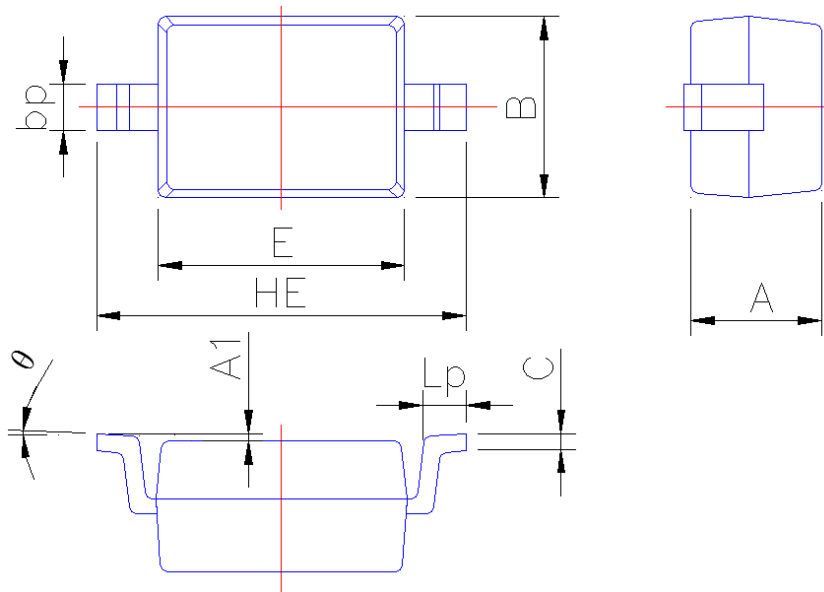
**UDZS3V6B-UDZS36VB**

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**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

SOD-323



Symbol	Dimension in Millimeters	
	Min	Max
A	0.95	1.15
A1	0.010	0.100
B	1.20	1.40
bp	0.25	0.40
C	0.09	0.150
E	1.60	1.80
HE	2.30	2.70
Lp	0.20	0.40
θ	0°	5°