RECTRON SEMICONDUCTOR
TECHNICAL SPECIFICATION

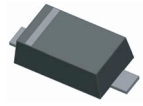
UDZS3V6B-UDZS36VB

SURFACE MOUNT ZENER DIODE

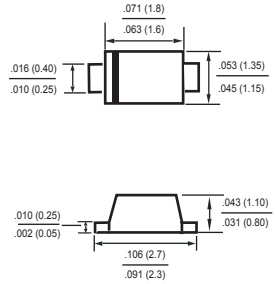
VOLTAGE RANGE 3.6 to 36 Volts POWER 200 mWatts

FEATURES

* Wide 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
* Matter Tin(Sn) Lead Finish with Nickel(Ni) Underplate
* Band Indicates Cathode



SOD-323



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

MAXIMUM RATINGES (@ T_A = 25°C unless otherwise noted)

RATINGS	SYMBOL	VALUE	UNITS
Max. Steady State Power Dissipation @T_A=25°C (Note 1)	P_D	200	mW
Max. Operating Temperature Range	T_J	150	°C
Storage Temperature Range	T_{STG}	-65 to +150	°C

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

2007-3

ELECTRICAL CHARACTERISTICS (@TA=25°C unless otherwise specified)

Device Type	Device Marking	V_Z @ I_{ZT} (Volts)		I_{ZT} (mA)	Z_{ZT} @ I_{ZT} (Ω) Max.	I_{ZK} (mA)	Z_{ZK} @ I_{ZK} (Ω) Max.	I_R @ V_R (uA) Max.	V_R (Volts)
		Min.	Max.						
UDZS3V6B	D0	3.60	3.85	5	90	1	600	4.5	1
UDZS3V9B	D1	3.89	4.16	5	90	1	600	2.7	1
UDZS4V3B	D2	4.17	4.43	5	90	1	600	2.7	1
UDZS4V7B	D3	4.55	4.75	5	80	1	500	2.7	2
UDZS5V1B	D4	4.98	5.20	5	60	1	500	1.8	2
UDZS5V6B	D5	5.49	5.73	5	40	1	300	0.9	2
UDZS6V2B	D6	6.06	6.33	5	40	1	150	2.7	4
UDZS6V8B	D7	6.65	6.93	5	30	1	75	1.8	4
UDZS7V5B	D8	7.28	7.60	5	30	1	75	0.9	5
UDZS8V2B	D9	8.02	8.36	5	30	1	75	0.63	5
UDZS9V1B	DA	8.85	9.23	5	30	1	90	0.45	6
UDZS10VB	DB	9.77	10.21	5	20	1	150	0.18	7
UDZS11VB	DC	10.76	11.22	5	20	1	150	0.09	8
UDZS12VB	DE	11.74	12.24	5	20	1	150	0.09	8
UDZS13VB	DF	12.91	13.49	5	40	1	160	0.09	8
UDZS15VB	DG	14.34	14.98	5	40	1	190	0.045	10.5
UDZS16VB	DH	15.85	16.51	5	40	1	190	0.045	11.2
UDZS18VB	DJ	17.56	18.35	5	50	1	220	0.045	12.6
UDZS20VB	DK	19.52	20.39	5	60	1	220	0.045	14.0
UDZS22VB	DL	21.54	22.47	5	80	1	240	0.045	15.4
UDZS24VB	DM	23.72	24.78	5	80	1	240	0.045	16.8
UDZS27VB	DN	26.19	27.53	5	100	0.5	300	0.045	18.9
UDZS30VB	DP	29.19	30.69	5	100	0.5	300	0.045	21.0
UDZS33VB	DR	32.15	33.79	5	100	0.5	310	0.045	23.0
UDZS36VB	DS	35.07	36.87	5	100	0.5	330	0.045	25.2

Notes 1. The Zener Voltage 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,contact your nearest Rectron Electronics representative.
3. The zener impedance is derived from the 60-cycle ac voltage, which results when an ac current having an rms value equal to 10% of the dc zener current (I_{ZT} or I_{ZK}) is superimposed to I_{ZT} or I_{ZK}.

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