



DESCRIPTION

The UDZS2.0B~ UDZS36B are available in SOD-323 Package

FEATURES

- Non-wire bonding structure improves
- High demand voltage range (3.6V-36V)
- Silicon epitaxial planar
- RoHS Compliant
- Available in SOD-323 Package

ORDERING INFORMATION

Package Type	Part Number
SOD-323	UDZS2.0B
	UDZS2.2B
	UDZS2.4B
	UDZS2.7B
	UDZS3.0B
	UDZS3.3B
	UDZS3.6B
	UDZS3.9B
	UDZS4.3B
	UDZS4.7B
	UDZS5.1B
	UDZS5.6B
	UDZS6.2B
	UDZS6.8B
	UDZS7.5B
	UDZS8.2B
	UDZS9.1B
	UDZS10B
	UDZS11B
	UDZS12B
	UDZS13B
	UDZS15B
	UDZS16B
	UDZS18B
UDZS20B	
UDZS22B	
UDZS24B	
UDZS27B	
UDZS30B	
UDZS33B	
UDZS36B	
Note	3,000pcs/ Reel

AiT provides all RoHS Compliant Products

PIN DESCRIPTION





ABSOLUTE MAXIMUM RATINGS

$T_A=25^{\circ}\text{C}$

P_D , Power Dissipation	200mW
T_J , Junction Temperature	125°C
T_{STG} , Storage Temperature	-55°C to +150°C
T_{OPR} , Operating Temperature	-55°C to +150°C

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.



ELECTRICAL CHARACTERISTICS

T_A=25°C

Part Number	Zener voltage			Operating resistance		Rising operating resistance		Reverse curre	
	V _Z (V)			Z _Z (Ω)		Z _{ZK} (Ω)		I _R (μA)	
	Min	Max	I _Z (mA)	Max	I _Z (mA)	Max	I _Z (mA)	Max	V _R (V)
UDZS2.0B	2.020	2.200	5	100	5	1000	0.5	120	0.5
UDZS2.2B	2.220	2.410	5	100	5	1000	0.5	120	0.7
UDZS2.4B	2.430	2.630	5	100	5	1000	0.5	100	1.0
UDZS2.7B	2.690	2.910	5	110	5	1000	0.5	100	1.0
UDZS3.0B	3.010	3.220	5	120	5	1000	0.5	50	1.0
UDZS3.3B	3.320	3.530	5	120	5	1000	0.5	20	1.0
UDZS3.6B	3.600	3.845	5	100	5	1000	1.0	10	1.0
UDZS3.9B	3.890	4.160	5	100	5	1000	1.0	5	1.0
UDZS4.3B	4.170	4.430	5	100	5	1000	1.0	5	1.0
UDZS4.7B	4.550	4.750	5	100	5	800	0.5	2	1.0
UDZS5.1B	4.980	5.200	5	80	5	500	0.5	2	1.5
UDZS5.6B	5.490	5.730	5	60	5	200	0.5	1	2.5
UDZS6.2B	6.060	6.330	5	60	5	100	0.5	1	3.0
UDZS6.8B	6.650	6.930	5	40	5	60	0.5	0.5	3.5
UDZS7.5B	7.280	7.600	5	30	5	60	0.5	0.5	4.0
UDZS8.2B	8.020	8.360	5	30	5	60	0.5	0.5	5.0
UDZS9.1B	8.850	9.230	5	30	5	60	0.5	0.5	6.0
UDZS10B	9.770	10.210	5	30	5	60	0.5	0.1	7.0
UDZS11B	10.760	11.220	5	30	5	60	0.5	0.1	8.0
UDZS12B	11.740	12.240	5	30	5	80	0.5	0.1	9.0
UDZS13B	12.910	13.490	5	37	5	80	0.5	0.1	10.0
UDZS15B	14.340	14.980	5	42	5	80	0.5	0.1	11.0
UDZS16B	15.850	16.510	5	50	5	80	0.5	0.1	12.0
UDZS18B	17.560	18.350	5	65	5	80	0.5	0.1	13.0
UDZS20B	19.520	20.390	5	85	5	100	0.5	0.1	15.0
UDZS22B	21.540	22.470	5	100	5	100	0.5	0.1	17.0
UDZS24B	23.720	24.780	5	120	5	120	0.5	0.1	19.0
UDZS27B	26.190	27.530	5	150	5	150	0.5	0.1	21.0
UDZS30B	29.190	30.690	5	200	5	200	0.5	0.1	23.0
UDZS33B	32.150	33.790	5	250	5	250	0.5	0.1	25.0
UDZS36B	35.070	36.870	5	300	5	300	0.5	0.1	27.0

NOTE1: The Zener voltage (V_Z) is measured 40ms after power is supplied.

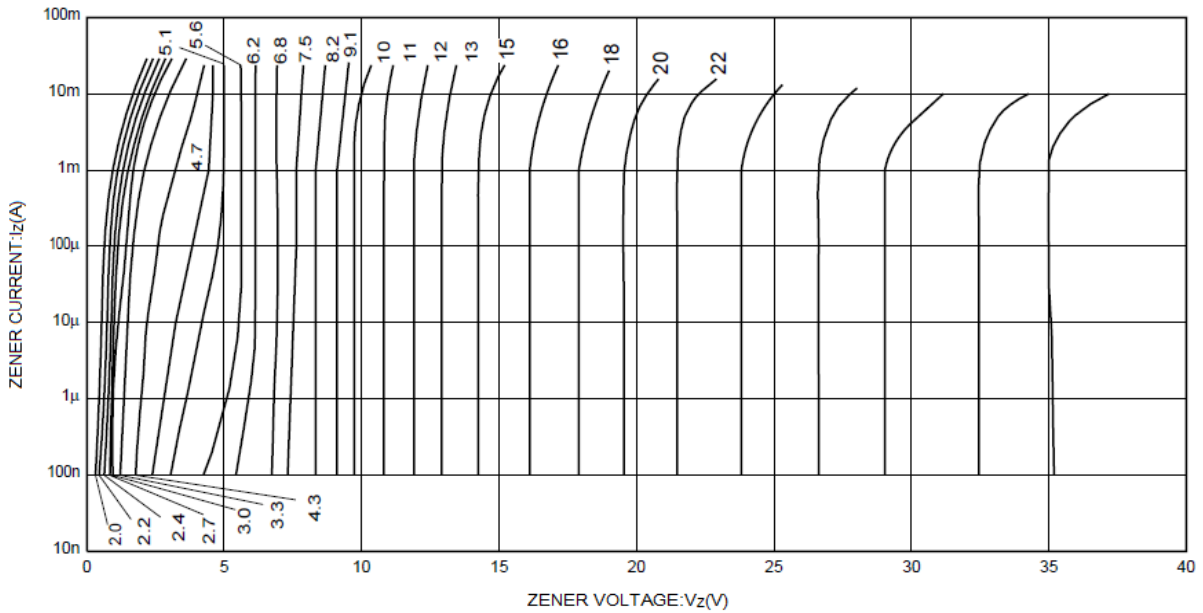
NOTE2: The operating resistances (Z_Z, Z_{ZK}) are measured by superimposing a minute alternating current on the regulated current (I_Z).



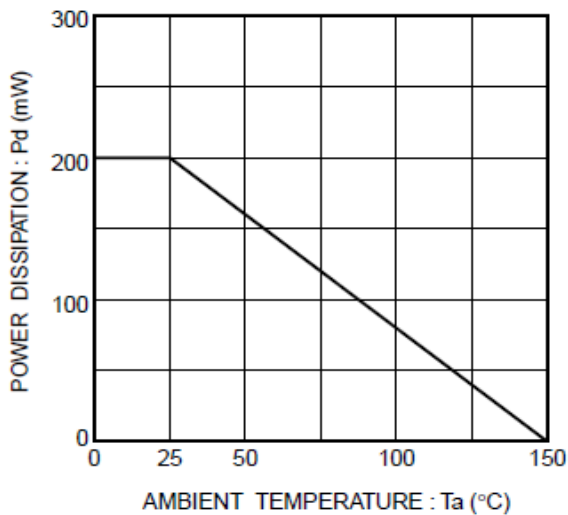
TYPICAL CHARACTERISTICS

$T_A=25^\circ\text{C}$

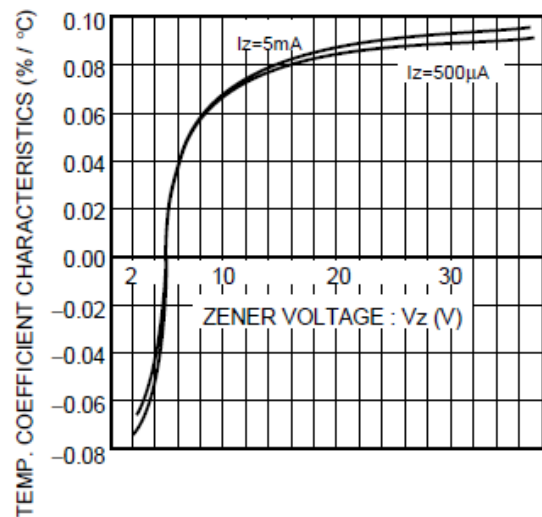
1. Zener voltage characteristics



2. Derating curve



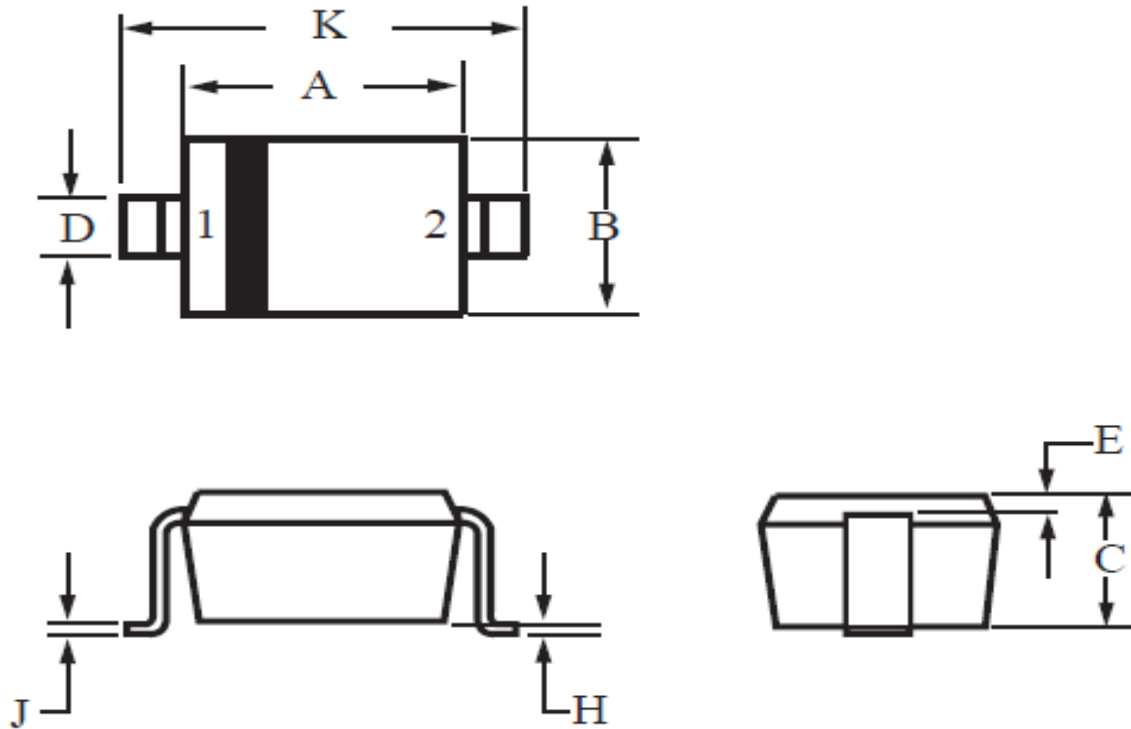
3. Zener voltage-temp. coefficient characteristics





PACKAGE INFORMATION

Dimension in SOD-323 Package (Unit: mm)



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	1.600	1.800	0.063	0.071
B	1.150	1.350	0.045	0.053
C	0.800	1.000	0.031	0.039
D	0.250	0.400	0.010	0.016
E	0.15 REF		0.006 REF	
H	0.000	0.100	0.000	0.004
J	0.089	0.177	0.0035	0.0070
K	2.300	2.700	0.091	0.106



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