

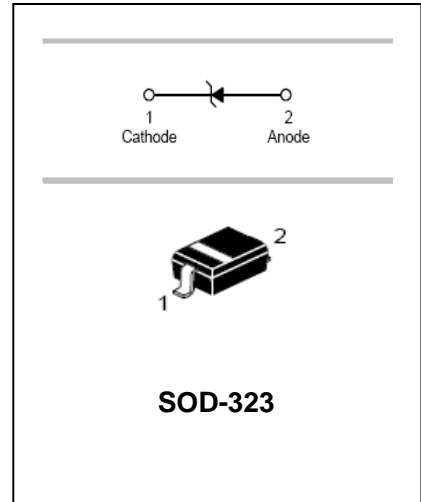
## Surface mount zener diode

## UDZ2V0B-UDZ56B

### FEATURES

- Very sharp breakdown characteristics
- Very tight tolerance on zener breakdown voltage
- Ideally suited for automated assembly processes

HF



### APPLICATIONS

- Zener diode
- Ultra-small surface mount package

### ORDERING INFORMATION

Type No.	Marking	Package Code
UDZ2V0B-UDZ56B	See table 2	SOD-323

### MAXIMUM RATING @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Power Dissipation	$P_d$	200	mW
Thermal resistance, junction to ambient air	$R_{\theta JA}$	625	°C/W
Junction temperature	$T_J$	150	°C
Storage temperature range	$T_{STG}$	-65 to +150	°C

## Surface mount zener diode

## UDZ2V0B-UDZ56B

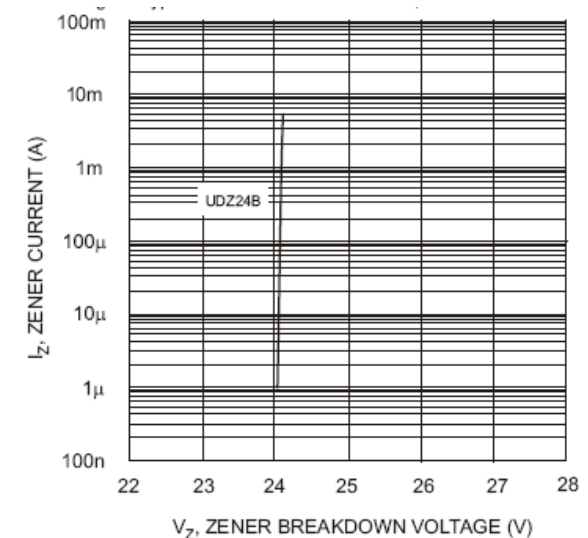
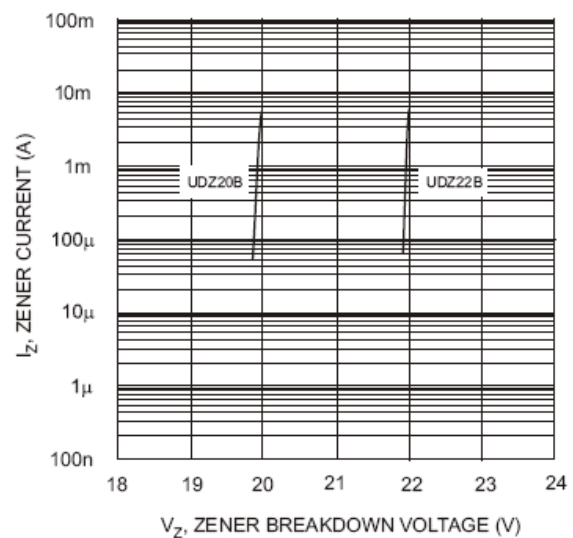
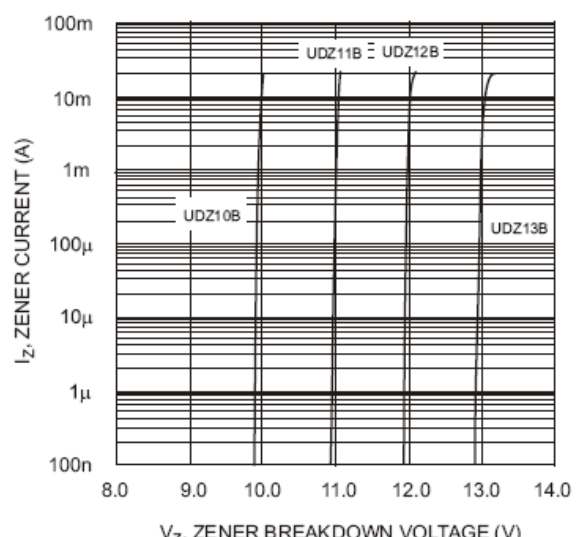
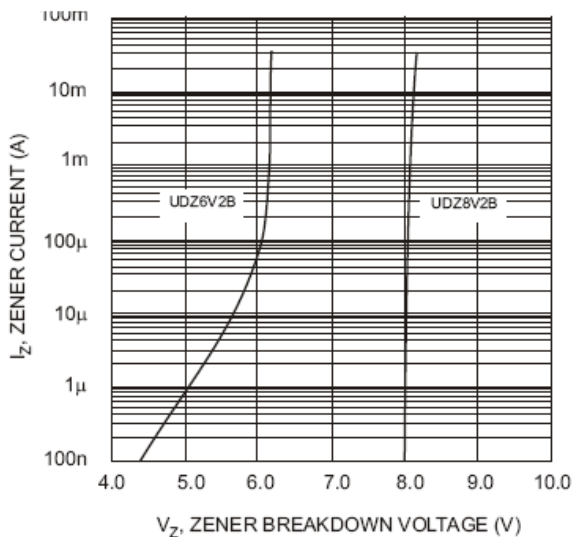
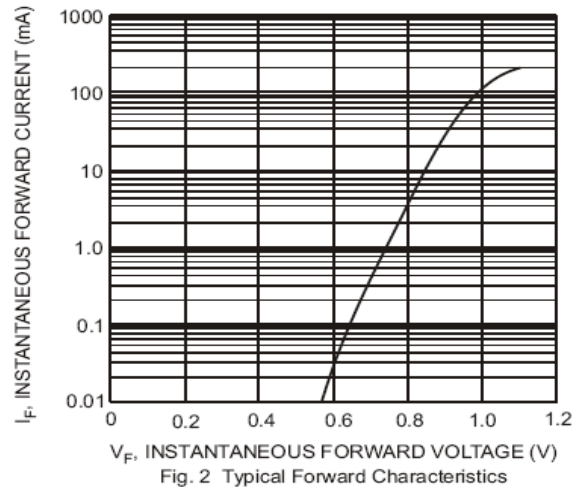
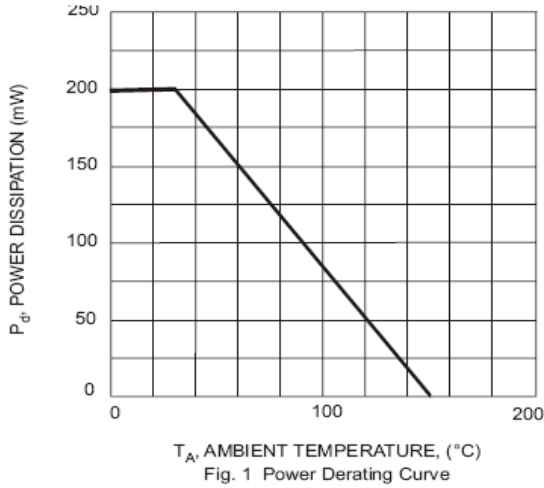
### ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise speci

Type Number	Marking Code	Zener Voltage Range			Maximum Zener Impedance			Maximum Reverse Current	
		V <sub>Z</sub> @I <sub>ZT</sub>		I <sub>ZT</sub>	Z <sub>VT</sub> @I <sub>ZT</sub>	Z <sub>ZK</sub> @I <sub>ZK</sub>	I <sub>ZK</sub>	I <sub>R</sub>	@V <sub>R</sub>
		Min(V)	Max(V)	mA	Ω		mA	μA	V
UDZ2V0B	B1	2.020	2.200	5	100	1000	0.5	120	0.5
UDZ2V2B	B2	2.220	2.410	5	100	1000	0.5	120	0.7
UDZ2V4B	B3	2.430	2.630	5	100	1000	0.5	120	1.0
UDZ2V7B	B4	2.690	2.910	5	110	1000	0.5	100	1.0
UDZ3V0B	B5	3.010	3.220	5	120	1000	0.5	50	1.0
UDZ3V3B	B6	3.320	3.530	5	120	1000	0.5	20	1.0
UDZ3V6B	B7	3.600	3.845	5	100	1000	1.0	10	1.0
UDZ3V9B	B8	3.890	4.160	5	100	1000	1.0	5	1.0
UDZ4V3B	B9	4.170	4.430	5	100	1000	1.0	5	1.0
UDZ4V7B	BA	4.550	4.750	5	100	800	0.5	2	1.0
UDZ5V1B	BB	4.980	5.200	5	80	750	0.5	2	1.5
UDZ5V6B	BC	5.490	5.730	5	60	200	0.5	1	2.5
UDZ6V2B	BD	6.060	6.330	5	60	100	0.5	1	3.0
UDZ6V8B	BE	6.650	6.930	5	40	60	0.5	0.5	3.5
UDZ7V5B	BF	7.280	7.600	5	30	60	0.5	0.5	4.0
UDZ8V2B	BG	8.020	8.360	5	30	60	0.5	0.5	5.0
UDZ9V1B	BH	8.850	8.230	5	30	60	0.5	0.5	6.0
UDZ10B	BI	9.770	10.21	5	30	60	0.5	0.1	7.0
UDZ11B	BJ	10.760	11.220	5	30	60	0.5	0.1	8.0
UDZ12B	BK	11.740	12.240	5	30	80	0.5	0.1	9.0
UDZ13B	BL	12.910	13.490	5	37	80	0.5	0.1	10.0
UDZ15B	BM	14.340	14.980	5	42	80	0.5	0.1	11.0
UDZ16B	BN	15.850	16.510	5	50	80	0.5	0.1	12.0
UDZ18B	BO	17.560	18.350	5	65	80	0.5	0.1	13.0
UDZ20B	BP	19.520	20.390	5	85	100	0.5	0.1	15.0
UDZ22B	BQ	21.540	22.470	5	100	100	0.5	0.1	17.0
UDZ24B	BR	23.720	24.780	5	120	120	0.5	0.1	19.0
UDZ27B	BS	26.190	27.530	5	150	150	0.5	0.1	21.0
UDZ30B	BT	29.190	30.690	5	200	200	0.5	0.1	23.0
UDZ33B	BU	32.150	33.790	5	250	250	0.5	0.1	25.0
UDZ36B	BV	35.070	36.870	5	300	300	0.5	0.1	27.0
UDZ39B	BW	38.025	39.975	5	300	350	0.5	0.1	29.0
UDZ43B	BX	41.925	44.075	2	300	400	0.5	0.1	32.0
UDZ47B	BY	45.825	48.175	2	300	450	0.5	0.1	35.0
UDZ51B	BZ	49.725	52.275	2	350	500	0.5	0.1	38.0
UDZ56B	U1	54.600	57.400	2	350	500	0.5	0.1	42.0

Surface mount zener diode

UDZ2V0B-UDZ56B

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



Surface mount zener diode

UDZ2V0B-UDZ56B

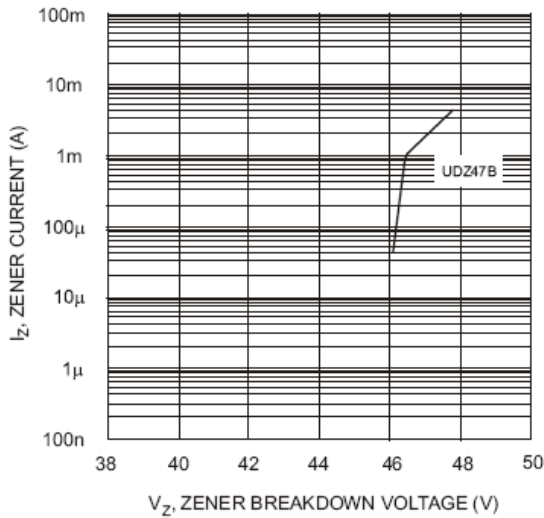


Fig. 7 Typical Reverse Characteristics, UDZ47B

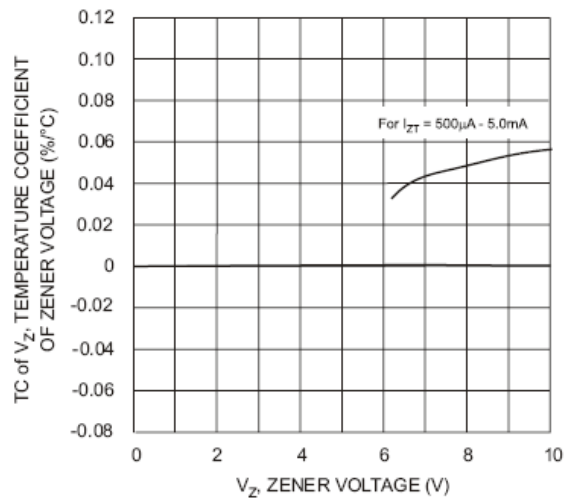


Fig. 8 Typical Temperature Coefficient of Zener Voltage vs. Zener Voltage, UDZ6V2B-UDZ10B

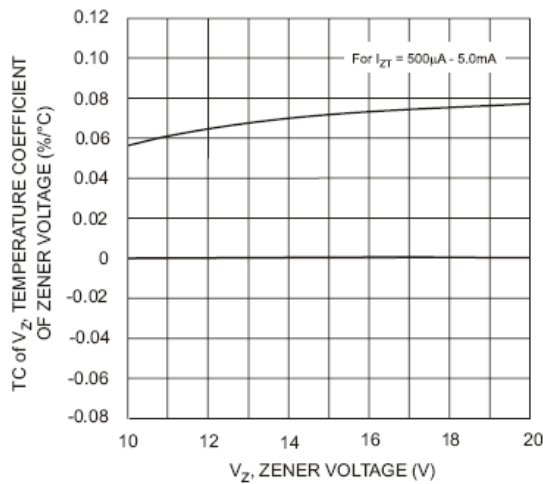


Fig. 9 Typical Temperature Coefficient of Zener Voltage vs. Zener Voltage, UDZ10B-UDZ20B

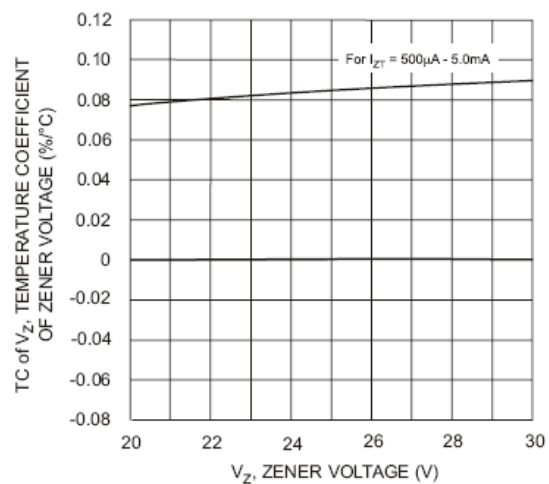


Fig. 10 Typical Temperature Coefficient of Zener Voltage, UDZ20B-UDZ30B

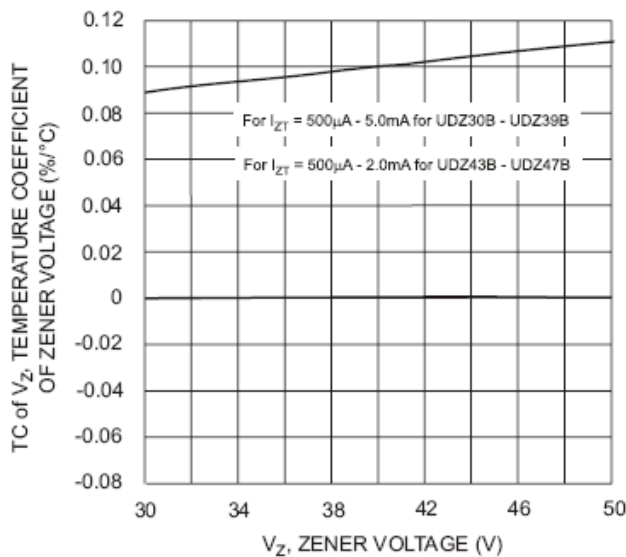


Fig. 11 Typical Temperature Coefficient of Zener Voltage, UDZ30B-UDZ47B

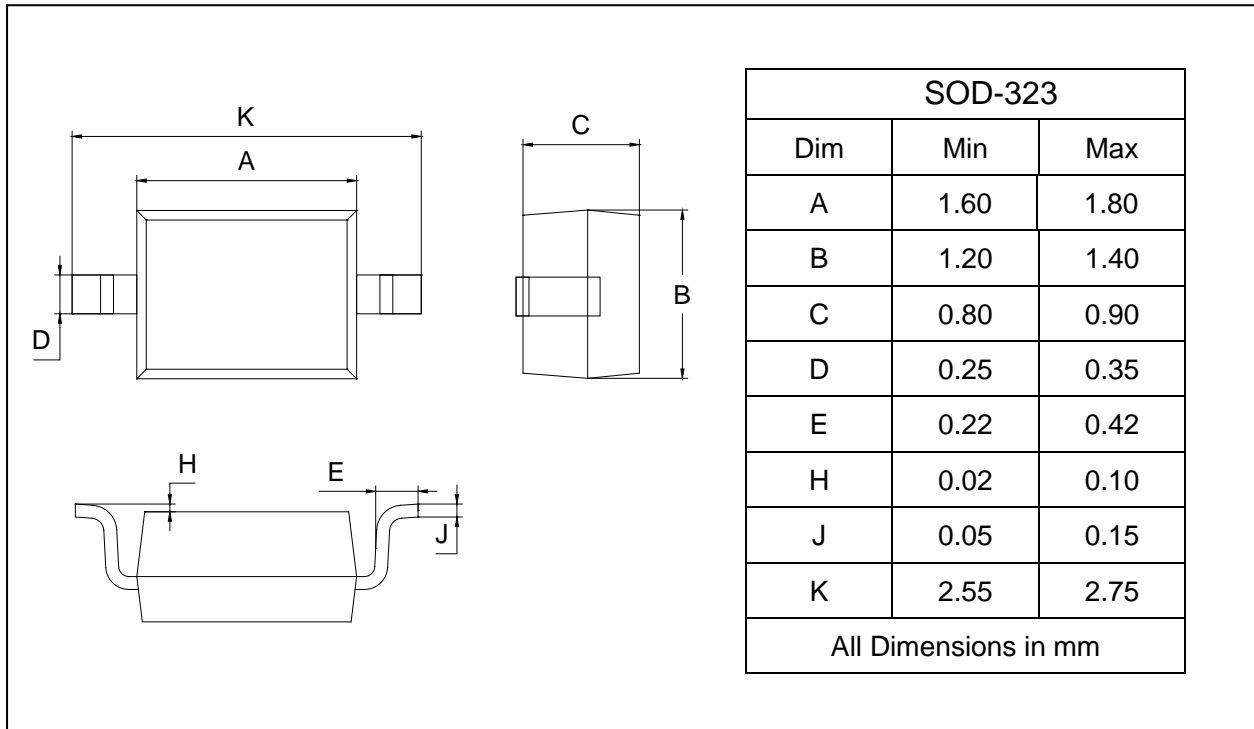
## Surface mount zener diode

## UDZ2V0B-UDZ56B

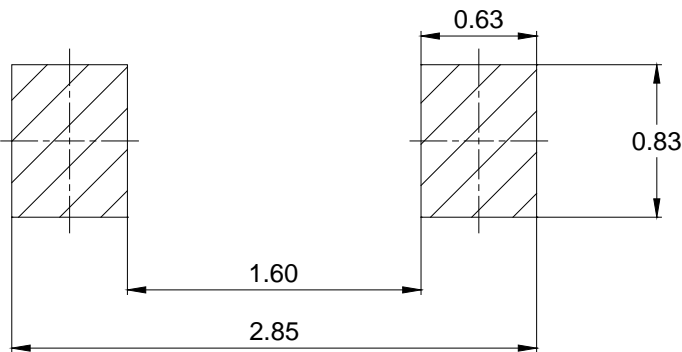
### PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



### SOLDERING FOOTPRINT



Unit: mm

### PACKAGE INFORMATION

Device	Package	Shipping
UDZ2V0B-UDZ56B	SOD-323	3000/Tape&Reel