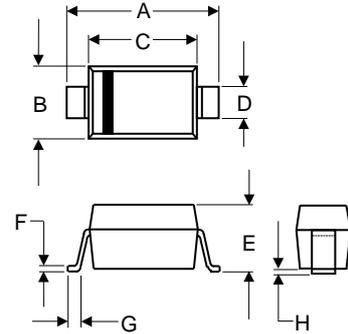


Features

- * Constant voltage control
- * Silicon epitaxial planar zener diode in a small plastic SMD SOD-323 package



RoHS
COMPLIANT



SOD-323				
DIM.	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.091	0.110	2.30	2.80
B	0.045	0.053	1.15	1.35
C	0.063	0.071	1.60	1.80
D	0.010	0.016	0.25	0.40
E	0.031	0.043	0.80	1.10
F	---	0.006	---	0.15
G	0.004	0.020	0.10	0.50
H	---	0.004	---	0.10

Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Power Dissipation	P _{tot}	300	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{Stg}	- 55 to + 150	°C
Operating temperature	T _{opr}	- 55 to + 150	°C

UDZS3V6B THRU UDZS36B

Silicon Epitaxial Planar Zener Diodes

Electrical Characteristics (T_A=25°C unless otherwise noted)

Type	Marking Code	Zener Voltage Range ¹⁾			Dynamic Impedance ²⁾		Rising Dynamic Impedance		Reverse Leakage Current	
		V _{znom}	I _{ZT}	for V _{ZT}	Z _Z (Max)	at I _Z	Z _{ZK} (Max)	at I _Z	I _R (Max)	at V _R
		V	mA	V	Ω	mA	Ω	mA	μA	V
UDZS3V6B	H6	3.6	5	3.6...3.845	100	5	1000	1	10	1
UDZS3V9B	J6	3.9	5	3.89...4.16	100	5	1000	1	5	1
UDZS4V3B	K6	4.3	5	4.17...4.43	100	5	1000	1	5	1
UDZS4V7B	M6	4.7	5	4.55...4.75	100	5	800	0.5	2	1
UDZS5V1B	N6	5.1	5	4.98...5.2	80	5	500	0.5	2	1.5
UDZS5V6B	P6	5.6	5	5.49...5.73	60	5	200	0.5	1	2.5
UDZS6V2B	R6	6.2	5	6.06...6.33	60	5	100	0.5	1	3
UDZS6V8B	X6	6.8	5	6.65...6.93	40	5	60	0.5	0.5	3.5
UDZS7V5B	Y6	7.5	5	7.28...7.6	30	5	60	0.5	0.5	4
UDZS8V2B	Z6	8.2	5	8.02...8.36	30	5	60	0.5	0.5	5
UDZS9V1B	A7	9.1	5	8.85...9.23	30	5	60	0.5	0.5	6
UDZS10B	B7	10	5	9.77...10.21	30	5	60	0.5	0.1	7
UDZS11B	C7	11	5	10.76...11.22	30	5	60	0.5	0.1	8
UDZS12B	D7	12	5	11.74...12.24	30	5	80	0.5	0.1	9
UDZS13B	E7	13	5	12.91...13.49	37	5	80	0.5	0.1	10
UDZS15B	F7	15	5	14.34...14.98	42	5	80	0.5	0.1	11
UDZS16B	H7	16	5	15.85...16.51	50	5	80	0.5	0.1	12
UDZS18B	J7	18	5	17.56...18.35	65	5	80	0.5	0.1	13
UDZS20B	K7	20	5	19.52...20.39	85	5	100	0.5	0.1	15
UDZS22B	M7	22	5	21.54...22.47	100	5	100	0.5	0.1	17
UDZS24B	N7	24	5	23.72...24.78	120	5	120	0.5	0.1	19
UDZS27B	P7	27	5	26.19...27.53	150	5	150	0.5	0.1	21
UDZS30B	R7	30	5	29.19...30.69	200	5	200	0.5	0.1	23
UDZS33B	X7	33	5	32.15...33.79	250	5	250	0.5	0.1	25
UDZS36B	Y7	36	5	35.07...36.87	300	5	300	0.5	0.1	27

Note:

1) Tested with pulses t_p = 20 ms.

2) The dynamic impedance (Z_Z, Z_{ZK}) are measured by superimposing a minute alternating current on the regulated current (I_Z).

Ratings and Characteristic Curves

●Electrical characteristic curves (Ta=25°C)

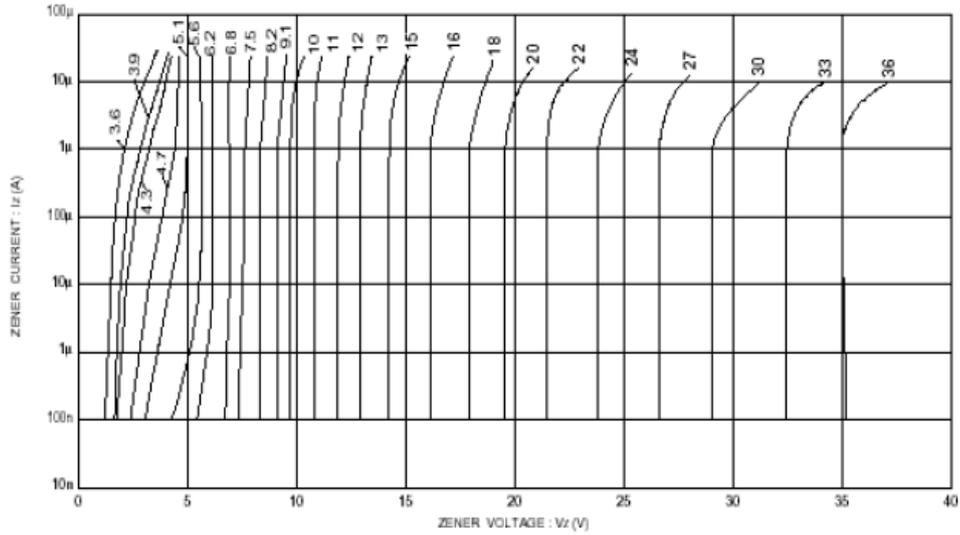


Fig.1 Zener voltage characteristics

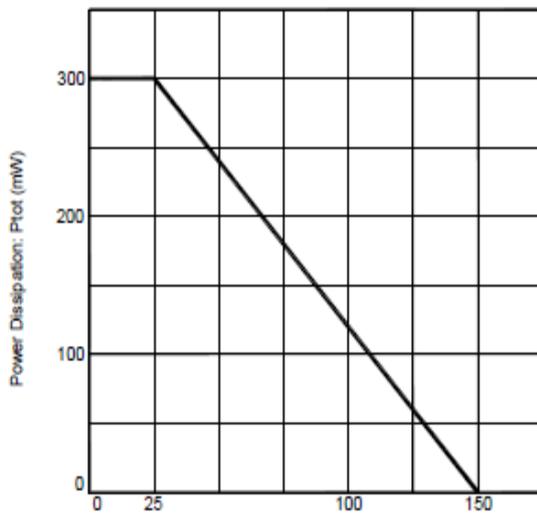


Fig.2 Derating Curve

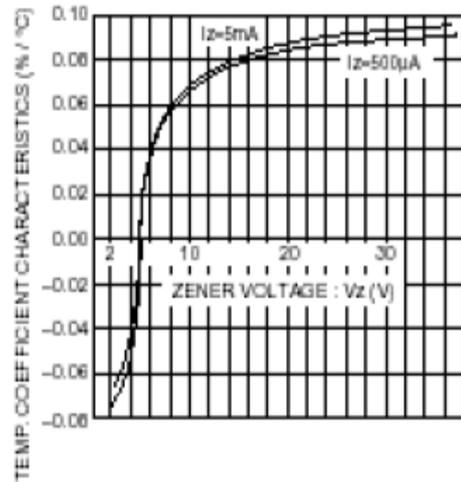


Fig.3 Zener voltage-temp. coefficient characteristics



UDZS3V6B THRU UDZS36B

Silicon Epitaxial Planar Zener Diodes

Ordering Information

Part No.	Package	Packing Code	Packing
UDZS3V6B THRU UDZS36B	SOD-323	R30	3000pcs/Reel

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