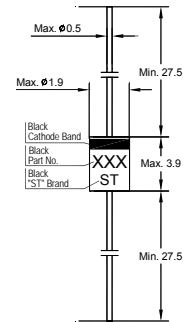


UZ Series

Silicon Epitaxial Planar Zener Diodes



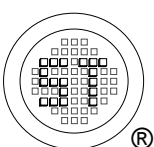
Glass Case DO-35
Dimensions in mm

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	500	mW
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 175	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$ ($V_F = 1\text{ V Max. at } I_F = 100\text{ mA}$)

Type	Zener Voltage ¹⁾			Dynamic Resistance		Reverse Current	
	V_Z		at I_{ZT}	Z_{ZT}	at I_{ZT}	I_R	at V_R
	Min. (V)	Max. (V)	(mA)	Max. (Ω)	(mA)	Max. (μA)	(V)
UZ2V0A	1.8	2.3	10	100	10	100	0.5
UZ2V0B	1.9	2.1	10	100	10	100	0.5
UZ2V2A	2	2.5	10	100	10	100	0.7
UZ2V2B	2.1	2.3	10	100	10	100	0.7
UZ2V4A	2.2	2.7	10	100	10	100	1
UZ2V4B	2.3	2.6	10	100	10	100	1
UZ2V7A	2.4	3.2	10	100	10	80	1
UZ2V7B	2.6	2.9	10	100	10	80	1
UZ3V0A	2.6	3.5	10	80	10	50	1
UZ3V0B	2.8	3.2	10	80	10	50	1
UZ3V3A	3	3.8	10	70	10	40	1
UZ3V3B	3.1	3.5	10	70	10	40	1
UZ3V6A	3.3	4.1	10	70	10	10	1
UZ3V6B	3.4	3.8	10	70	10	10	1
UZ3V9A	3.6	4.5	10	70	10	10	1
UZ3V9B	3.7	4.1	10	70	10	10	1
UZ4V3A	3.9	4.9	10	60	10	10	1
UZ4V3B	4	4.6	10	60	10	10	1
UZ4V7A	4.3	5.3	10	60	10	10	1
UZ4V7B	4.4	5	10	60	10	10	1
UZ5V1A	4.7	5.8	10	50	10	10	1.5
UZ5V1B	4.8	5.4	10	50	10	10	1.5



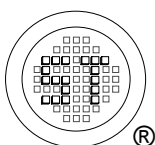
SEMTECH ELECTRONICS LTD.
Subsidiary of Sino-Tech International (BVI) Limited



UZ Series

Characteristics at $T_a = 25^\circ\text{C}$ ($V_F = 1\text{ V Max. at } I_F = 100\text{ mA}$)

Type	Zener Voltage ¹⁾			Dynamic Resistance		Reverse Current	
	V_Z		at I_{ZT}	Z_{ZT}	at I_{ZT}	I_R	at V_R
	Min. (V)	Max. (V)	(mA)	Max. (Ω)	(mA)	Max. (μA)	(V)
UZ5V6B	5.2	6	10	20	10	1	1
UZ5V6BL	5.2	5.6	10	20	10	1	1
UZ5V6BM	5.4	5.8	10	20	10	1	1
UZ5V6BH	5.6	6	10	20	10	1	1
UZ6V2B	5.8	6.6	10	10	10	1	1.5
UZ6V2BL	5.8	6.2	10	10	10	1	1.5
UZ6V2BM	6	6.4	10	10	10	1	1.5
UZ6V2BH	6.2	6.6	10	10	10	1	1.5
UZ6V8B	6.4	7.2	10	10	10	1	2
UZ6V8BL	6.4	6.8	10	10	10	1	2
UZ6V8BM	6.6	7	10	10	10	1	2
UZ6V8BH	6.8	7.2	10	10	10	1	2
UZ7V5B	7	7.9	10	10	10	1	3
UZ7V5BL	7	7.5	10	10	10	1	3
UZ7V5BM	7.2	7.7	10	10	10	1	3
UZ7V5BH	7.5	7.9	10	10	10	1	3
UZ8V2B	7.7	8.7	10	10	10	1	6
UZ8V2BL	7.7	8.2	10	10	10	1	6
UZ8V2BM	7.9	8.5	10	10	10	1	6
UZ8V2BH	8.2	8.7	10	10	10	1	6
UZ9V1B	8.5	9.6	10	10	10	1	6
UZ9V1BL	8.5	9.1	10	10	10	1	6
UZ9V1BM	8.7	9.4	10	10	10	1	6
UZ9V1BH	9.1	9.6	10	10	10	1	6
UZ10B	9.9	10.6	10	15	5	1	8
UZ10BL	9.4	10	10	15	5	1	8
UZ10BM	9.6	10.4	10	15	5	1	8
UZ10BH	10	10.6	10	15	5	1	8
UZ11B	10.4	11.6	5	15	5	1	9
UZ11BL	10.4	11	5	15	5	1	9
UZ11BM	10.6	11.4	5	15	5	1	9
UZ11BH	11	11.6	5	15	5	1	9
UZ12B	11.4	12.6	5	20	5	1	10
UZ12BL	11.4	12	5	20	5	1	10
UZ12BM	11.6	12.4	5	20	5	1	10
UZ12BH	12	12.6	5	20	5	1	10
UZ13B	12.4	14.1	5	25	5	1	11
UZ13BL	12.4	13.2	5	25	5	1	11
UZ13BM	12.6	13.9	5	25	5	1	11
UZ13BH	13.2	14.1	5	25	5	1	11
UZ15B	13.9	15.6	5	30	5	1	12
UZ15BL	13.9	14.8	5	30	5	1	12
UZ15BM	14.1	15.4	5	30	5	1	12



SEMTECH ELECTRONICS LTD.
Subsidiary of Sino-Tech International (BVI) Limited

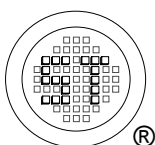


UZ Series

Characteristics at $T_a = 25^\circ\text{C}$ ($V_F = 1\text{ V Max. at } I_F = 100\text{ mA}$)

Type	Zener Voltage ¹⁾			Dynamic Resistance		Reverse Current	
	V_Z		at I_{ZT}	Z_{ZT}	at I_{ZT}	I_R	at V_R
	Min. (V)	Max. (V)	(mA)	Max. (Ω)	(mA)	Max. (μA)	(V)
UZ15BH	14.8	15.6	5	30	5	1	12
UZ16B	15.4	17.1	5	30	5	1	14
UZ16BL	15.4	16.2	5	30	5	1	14
UZ16BM	15.6	16.9	5	30	5	1	14
UZ16BH	16.2	17.1	5	30	5	1	14
UZ18B	16.9	19.1	5	30	5	1	15
UZ18BL	16.9	18	5	30	5	1	15
UZ18BM	17.1	18.9	5	30	5	1	15
UZ18BH	18	19.1	5	30	5	1	15
UZ20B	18.9	21.1	5	40	5	1	16
UZ20BL	18.9	20	5	40	5	1	16
UZ20BM	19.1	20.9	5	40	5	1	16
UZ20BH	20	21.1	5	40	5	1	16
UZ22B	20.9	23.1	5	40	5	1	18
UZ22BL	20.9	22	5	40	5	1	18
UZ22BM	21.1	22.8	5	40	5	1	18
UZ22BH	22	23.1	5	40	5	1	18
UZ24B	22.8	25.7	5	50	5	1	20
UZ24BL	22.8	24.2	5	50	5	1	20
UZ24BM	23.1	25.5	5	50	5	1	20
UZ24BH	24.2	25.7	5	50	5	1	20
UZ27B	25.5	30	5	55	5	1	22
UZ27BL	25.5	27	5	55	5	1	22
UZ27BM	25.7	28	5	55	5	1	22
UZ27BH	27	30	5	55	5	1	22
UZ30B	28	33	5	85	5	1	24
UZ30BL	28	31	5	85	5	1	24
UZ30BM	29	32	5	85	5	1	24
UZ30BH	30	33	5	85	5	1	24
UZ33B	30	36	5	100	5	1	25
UZ36B	33	39	5	110	5	1	27
UZ39B	36	43	5	120	5	1	30
UZ43B	39	47	5	130	5	1	33
UZ47B	43	51	5	140	5	1	36
UZ51B	47	56	5	150	5	1	39
UZ56B	51	62	5	160	5	1	43
UZ62B	56	68	2	450	2	1	47

¹⁾ Tested with pulses $t_p = 20\text{ ms}$.



SEMTECH ELECTRONICS LTD.
Subsidiary of Sino-Tech International (BVI) Limited



Dated: 22/09/2011 Rev: 01