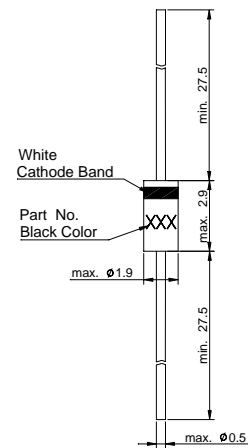


ZJ Series

SILICON EPITAXIAL PLANER ZENER DIODES Constant Voltage Control Applications

Features

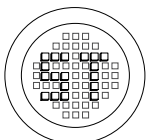
- Glass sealed envelope. (MSD)
- High reliability.



Glass case JEDEC DO-34
Dimensions in mm

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

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



®

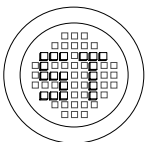
РАДИОТЕХ

Тел.: (495) 795-0805
Факс: (495) 234-1603
Эл. почта: info@rct.ru
Веб: www.rct.ru

ZJ Series

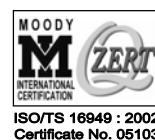
Characteristics at $T_a = 25^\circ\text{C}$

Type	Zener Voltage			Operating resistance		Rising operating resistance		Reverse Current	
	V_Z (V)		I_Z (mA)	Z_Z (Ω)		Z_{ZK} (Ω)		I_R (μA)	
Min.	Max.	Max.		Max.	I_Z (mA)	Max.	I_Z (mA)	Max.	V_R (V)
ZJ 2.0	1.880	2.200	5	100	5	1000	1	120	0.5
ZJ 2.0A	1.880	2.100							
ZJ 2.0B	2.020	2.200							
ZJ 2.2	2.120	2.410	5	100	5	1000	1	120	0.7
ZJ 2.2A	2.120	2.300							
ZJ 2.2B	2.220	2.410							
ZJ 2.4	2.330	2.630	5	100	5	1000	1	120	1
ZJ 2.4A	2.330	2.520							
ZJ 2.4B	2.430	2.630							
ZJ 2.7	2.540	2.910	5	110	5	1000	1	100	1
ZJ 2.7A	2.540	2.750							
ZJ 2.7B	2.690	2.910							
ZJ 3.0	2.850	3.220	5	120	5	1000	1	50	1
ZJ 3.0A	2.850	3.070							
ZJ 3.0B	3.010	3.220							
ZJ 3.3	3.160	3.530	5	120	5	1000	1	20	1
ZJ 3.3A	3.160	3.380							
ZJ 3.3B	3.320	3.530							
ZJ 3.6	3.455	3.845	5	100	5	1000	1	10	1
ZJ 3.6A	3.455	3.695							
ZJ 3.6B	3.600	3.845							
ZJ 3.9	3.74	4.16	5	100	5	1000	1	5	1
ZJ 3.9A	3.74	4.01							
ZJ 3.9B	3.89	4.16							
ZJ 4.3	4.04	4.57	5	100	5	1000	1	5	1
ZJ 4.3A	4.04	4.29							
ZJ 4.3B	4.17	4.43							
ZJ 4.3C	4.30	4.57							
ZJ 4.7	4.44	4.93	5	80	5	900	0.5	5	1
ZJ 4.7A	4.44	4.68							
ZJ 4.7B	4.55	4.80							
ZJ 4.7C	4.68	4.93							
ZJ 5.1	4.81	5.37	5	70	5	1200	1	5	1.5
ZJ 5.1A	4.81	5.07							
ZJ 5.1B	4.94	5.20							
ZJ 5.1C	5.09	5.37							
ZJ 5.6	5.28	5.91	5	40	5	900	1	5	2.5
ZJ 5.6A	5.28	5.55							
ZJ 5.6B	5.45	5.73							
ZJ 5.6C	5.61	5.91							
ZJ 6.2	5.78	6.44	5	30	5	500	1	5	3
ZJ 6.2A	5.78	6.09							
ZJ 6.2B	5.96	6.27							
ZJ 6.2C	6.12	6.44							
ZJ 6.8	6.29	7.01	5	20	5	150	0.5	2	3.5
ZJ 6.8A	6.29	6.63							
ZJ 6.8B	6.49	6.83							
ZJ 6.8C	6.66	7.01							



SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)

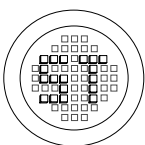


Dated : 17/10/2005

ZJ Series

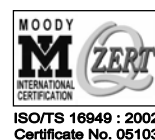
Characteristics at $T_a = 25^\circ\text{C}$

Type	Zener Voltage			Operating resistance		Rising operating resistance		Reverse Current	
	Min.	Max.	I_z (mA)	Max.	I_z (mA)	Max.	I_z (mA)	Max.	V_R (V)
ZJ 7.5	6.85	7.67	5	20	5	120	0.5	0.5	4
ZJ 7.5A	6.85	7.22							
ZJ 7.5B	7.07	7.45							
ZJ 7.5C	7.29	7.67							
ZJ 8.2	7.53	8.45	5	20	5	120	0.5	0.5	5
ZJ 8.2A	7.53	7.92							
ZJ 8.2B	7.78	8.19							
ZJ 8.2C	8.03	8.45							
ZJ 9.1	8.29	9.30	5	20	5	120	0.5	0.5	6
ZJ 9.1A	8.29	8.73							
ZJ 9.1B	8.57	9.01							
ZJ 9.1C	8.83	9.30							
ZJ 10	9.12	10.44	5	20	5	120	0.5	0.2	7
ZJ 10A	9.12	9.59							
ZJ 10B	9.41	9.90							
ZJ 10C	9.70	10.20							
ZJ 10D	9.94	10.44							
ZJ 11	10.18	11.38	5	20	5	120	0.5	0.2	8
ZJ 11A	10.18	10.71							
ZJ 11B	10.50	11.05							
ZJ 11C	10.82	11.38							
ZJ 12	11.13	12.35	5	25	5	110	0.5	0.2	9
ZJ 12A	11.13	11.71							
ZJ 12B	11.44	12.03							
ZJ 12C	11.74	12.35							
ZJ 13	12.11	13.66	5	25	5	110	0.5	0.2	10
ZJ 13A	12.11	12.75							
ZJ 13B	12.55	13.21							
ZJ 13C	12.99	13.66							
ZJ 15	13.44	15.09	5	25	5	110	0.5	0.2	11
ZJ 15A	13.44	14.13							
ZJ 15B	13.89	14.62							
ZJ 15C	14.35	15.09							
ZJ 16	14.80	16.51	5	25	5	150	0.5	0.2	12
ZJ 16A	14.80	15.57							
ZJ 16B	15.25	16.04							
ZJ 16C	15.69	16.51							
ZJ 18	16.22	18.33	5	30	5	150	0.5	0.2	13
ZJ 18A	16.22	17.06							
ZJ 18B	16.82	17.70							
ZJ 18C	17.42	18.33							
ZJ 20	18.02	20.72	5	30	5	200	0.5	0.2	15
ZJ 20A	18.02	18.96							
ZJ 20B	18.63	19.59							
ZJ 20C	19.23	20.22							
ZJ 20D	19.72	20.72							
ZJ 22	20.15	22.63	5	30	5	200	0.5	0.2	17
ZJ 22A	20.15	21.20							
ZJ 22B	20.64	21.71							
ZJ 22C	21.08	22.17							
ZJ 22D	21.52	22.63							



SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



®

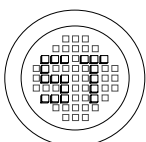
Dated : 17/10/2005

ZJ Series

Characteristics at $T_a = 25^\circ\text{C}$

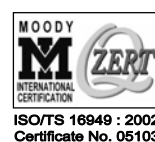
Type	Zener Voltage			Operating resistance		Rising operating resistance		Reverse Current	
	Min.	Max.	I_z (mA)	Max.	I_z (mA)	Max.	I_z (mA)	Max.	V_R (V)
ZJ 24	22.05	24.85	5	35	5	200	0.5	0.2	19
ZJ 24A	22.05	23.18							
ZJ 24B	22.61	23.77							
ZJ 24C	23.12	24.31							
ZJ 24D	23.63	24.85							
ZJ 27	24.26	27.64	5	45	5	250	0.5	0.2	21
ZJ 27A	24.26	25.52							
ZJ 27B	24.97	26.26							
ZJ 27C	25.63	26.95							
ZJ 27D	26.29	27.64	5	55	5	250	0.5	0.2	23
ZJ 30	26.99	30.51							
ZJ 30A	26.99	28.39							
ZJ 30B	27.70	29.13							
ZJ 30C	28.36	29.82							
ZJ 30D	29.02	30.51	5	65	5	250	0.5	0.2	25
ZJ 33	29.68	33.11							
ZJ 33A	29.68	31.22							
ZJ 33B	30.32	31.88							
ZJ 33C	30.90	32.50							
ZJ 33D	31.49	33.11	5	75	5	250	0.5	0.2	27
ZJ 36	32.14	35.77							
ZJ 36A	32.14	33.79							
ZJ 36B	32.79	34.49							
ZJ 36C	33.40	35.13							
ZJ 36D	34.01	35.77	5	85	5	250	0.5	0.2	30
ZJ 39	34.68	40.80							
ZJ 39A	34.68	36.47							
ZJ 39B	35.36	37.19							
ZJ 39C	36.00	37.85							
ZJ 39D	36.63	38.52							
ZJ 39E	37.36	39.29							
ZJ 39F	38.14	40.11							
ZJ 39G	38.94	40.80	5	90	5	250	0.5	0.2	33
ZJ43	40.00	45.00							
ZJ47	44.00	49.00							
ZJ51	48.00	54.00							
ZJ56	53.00	60.00	5	110	5	250	0.5	0.2	43

Tested with pulses $t_p = 20$ ms.



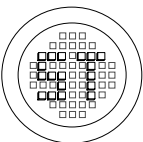
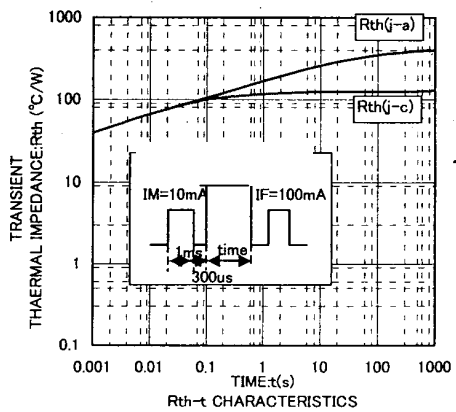
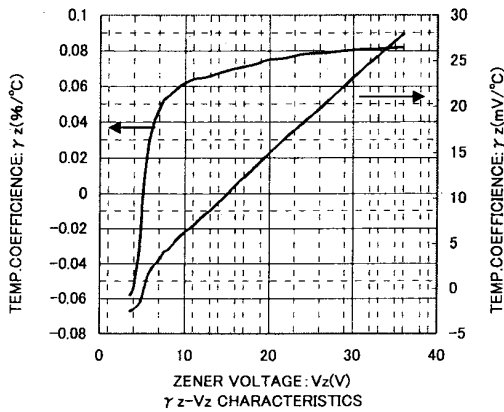
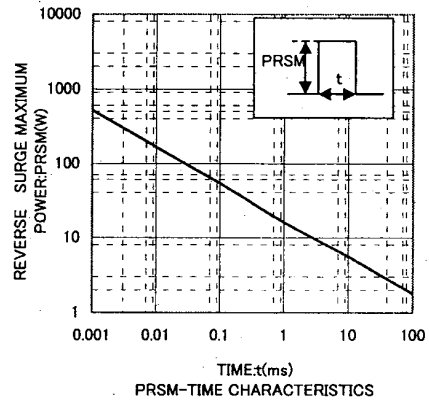
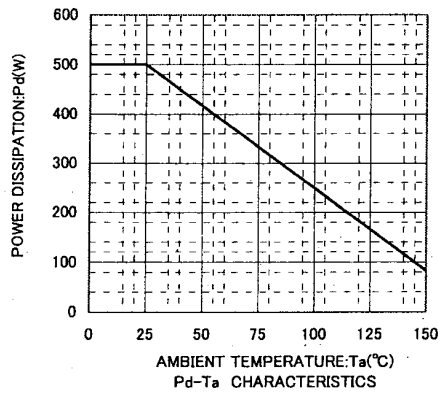
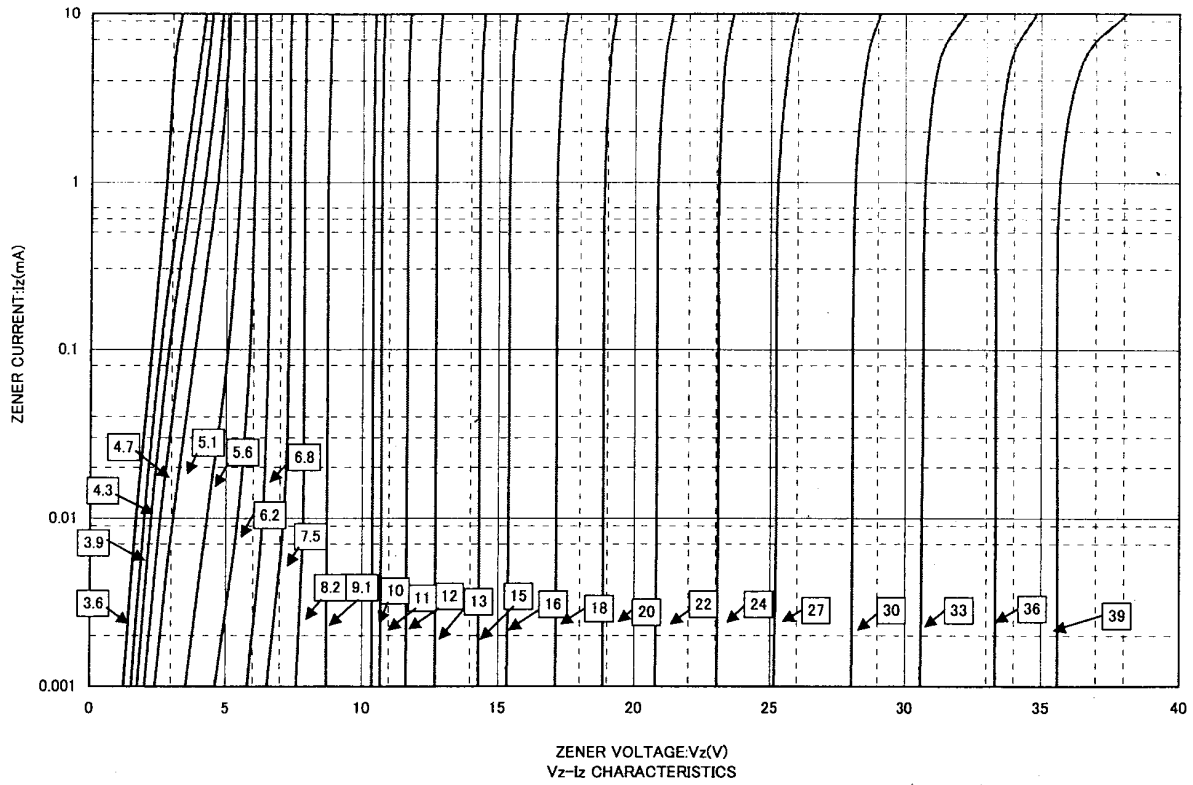
SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)

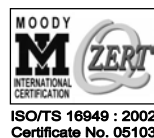


Dated : 17/10/2005

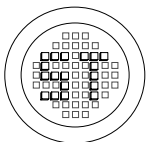
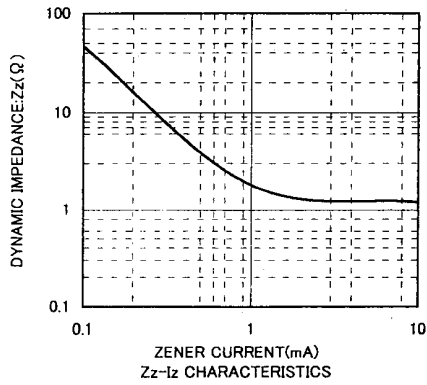
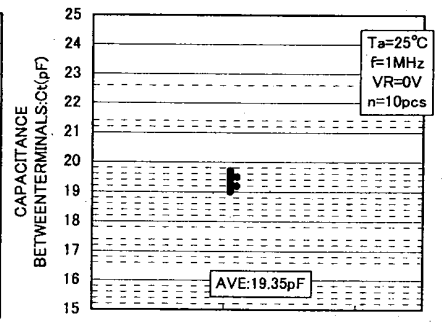
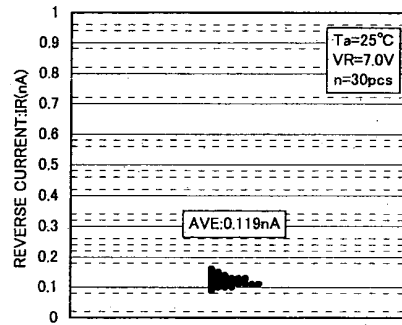
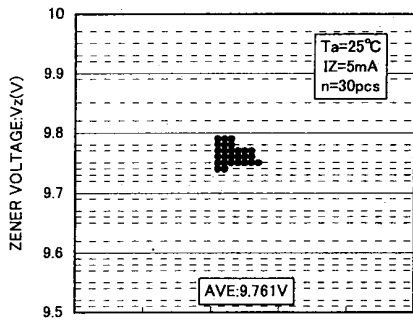
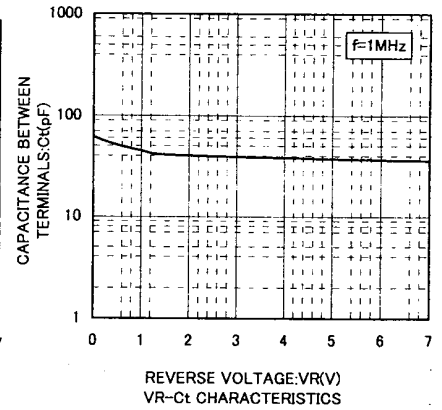
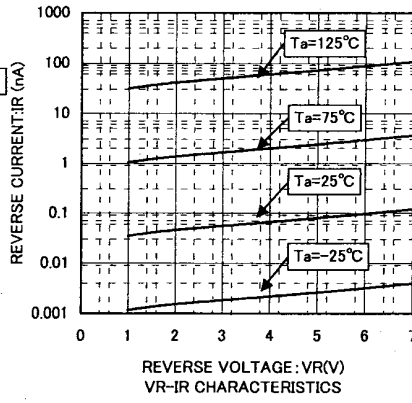
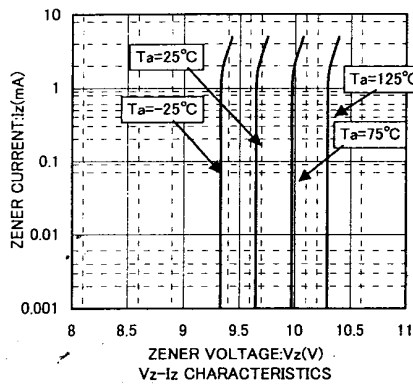
ZJ Series



SEMTECH ELECTRONICS LTD.
(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ZJ Series



SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)

