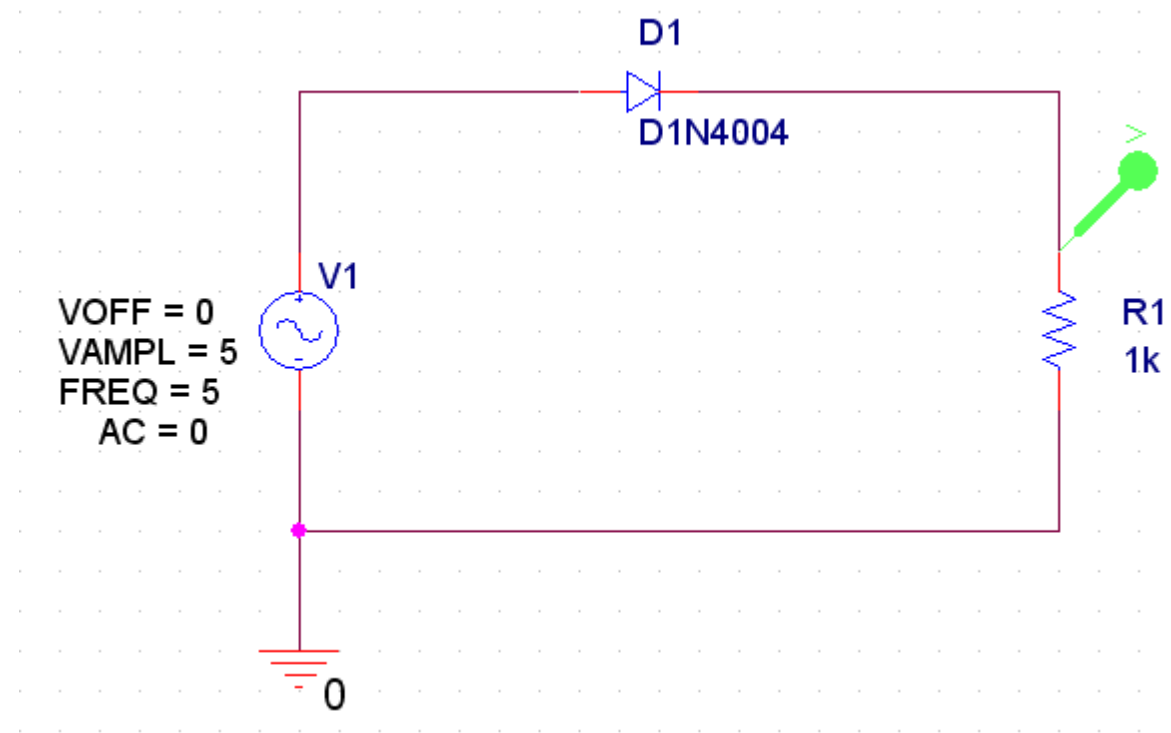
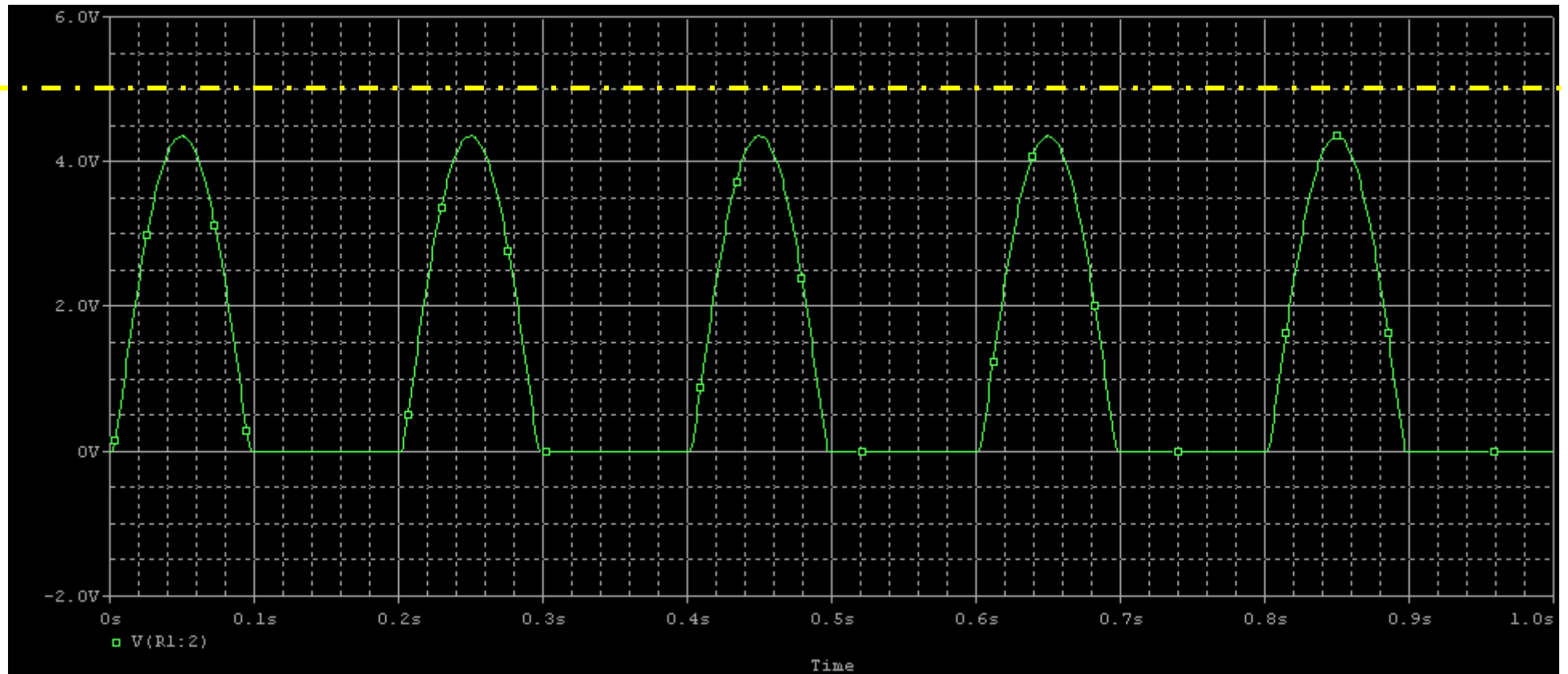

Diode 회로

반파정류기

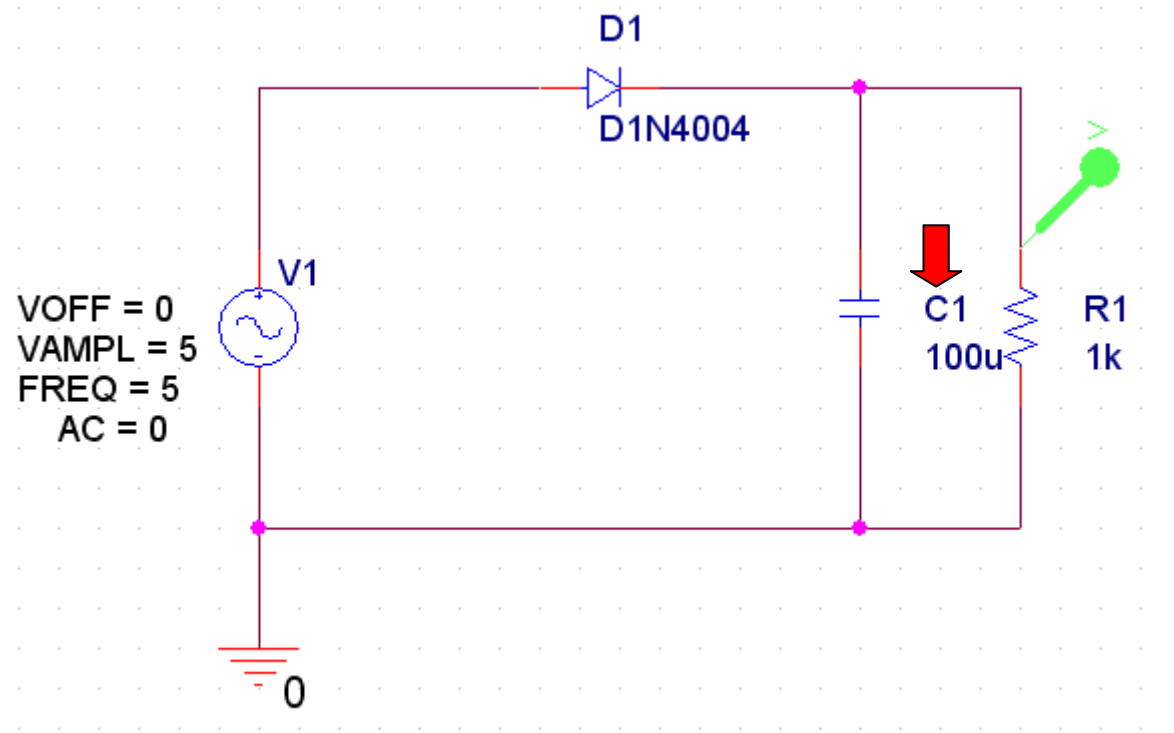


Time Domain 분석

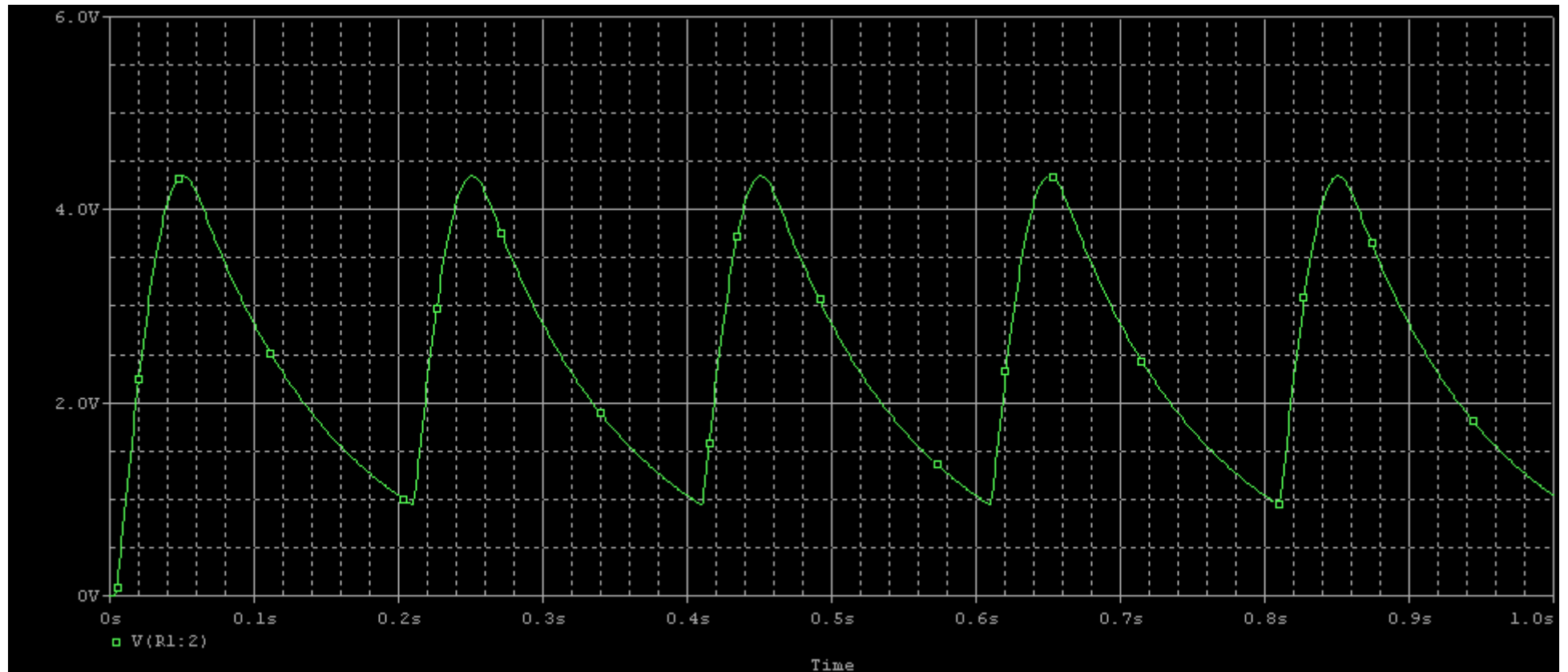
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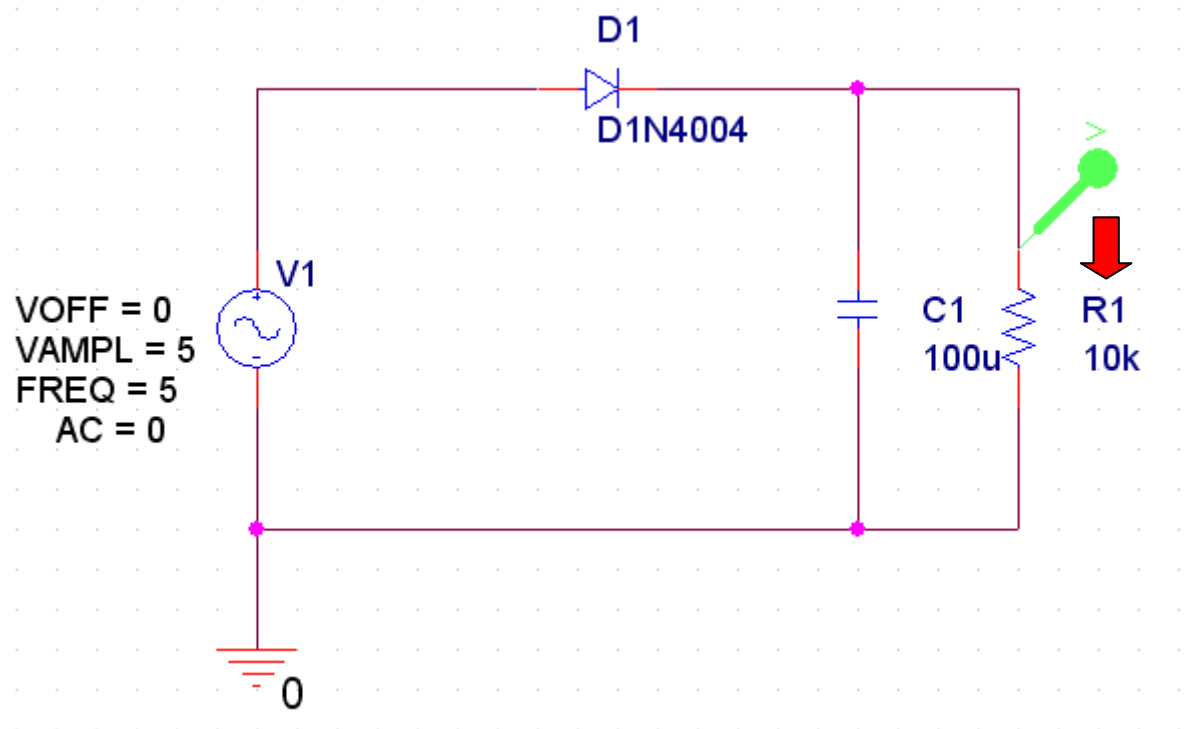
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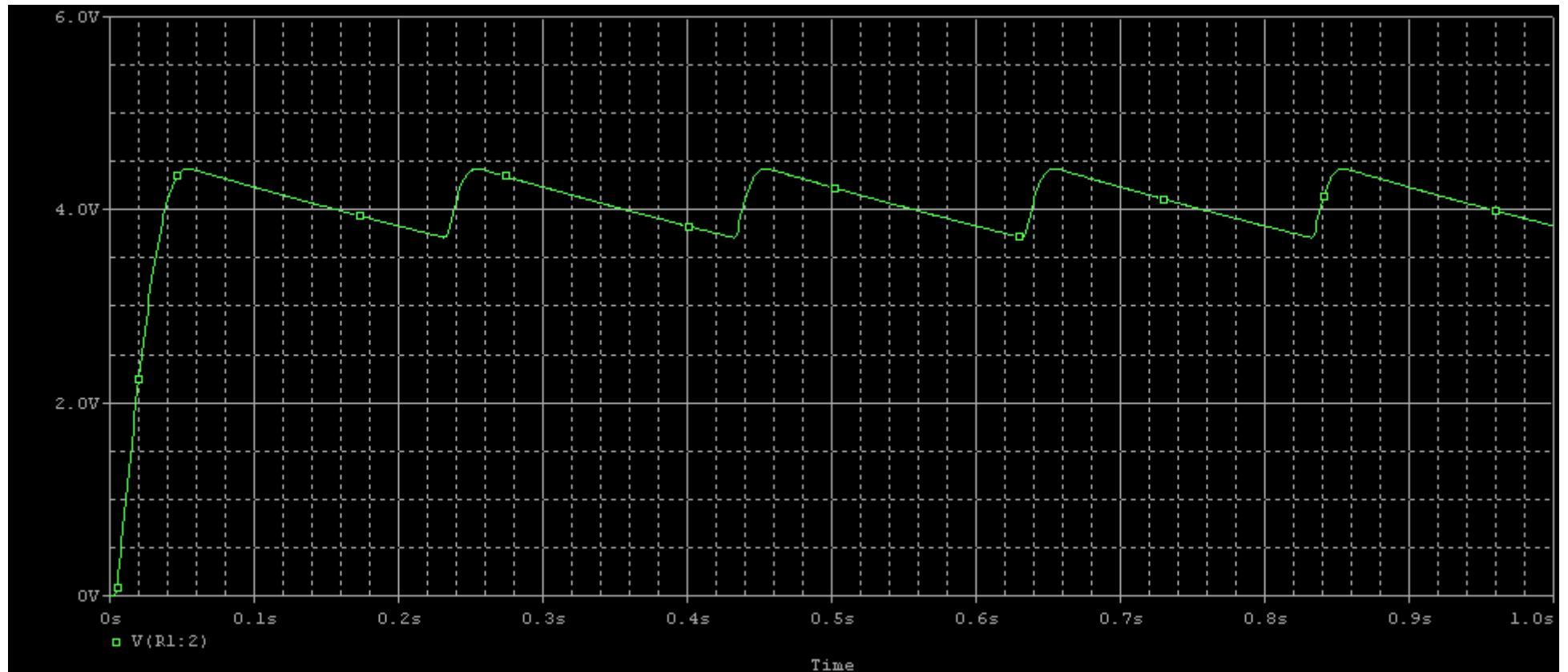
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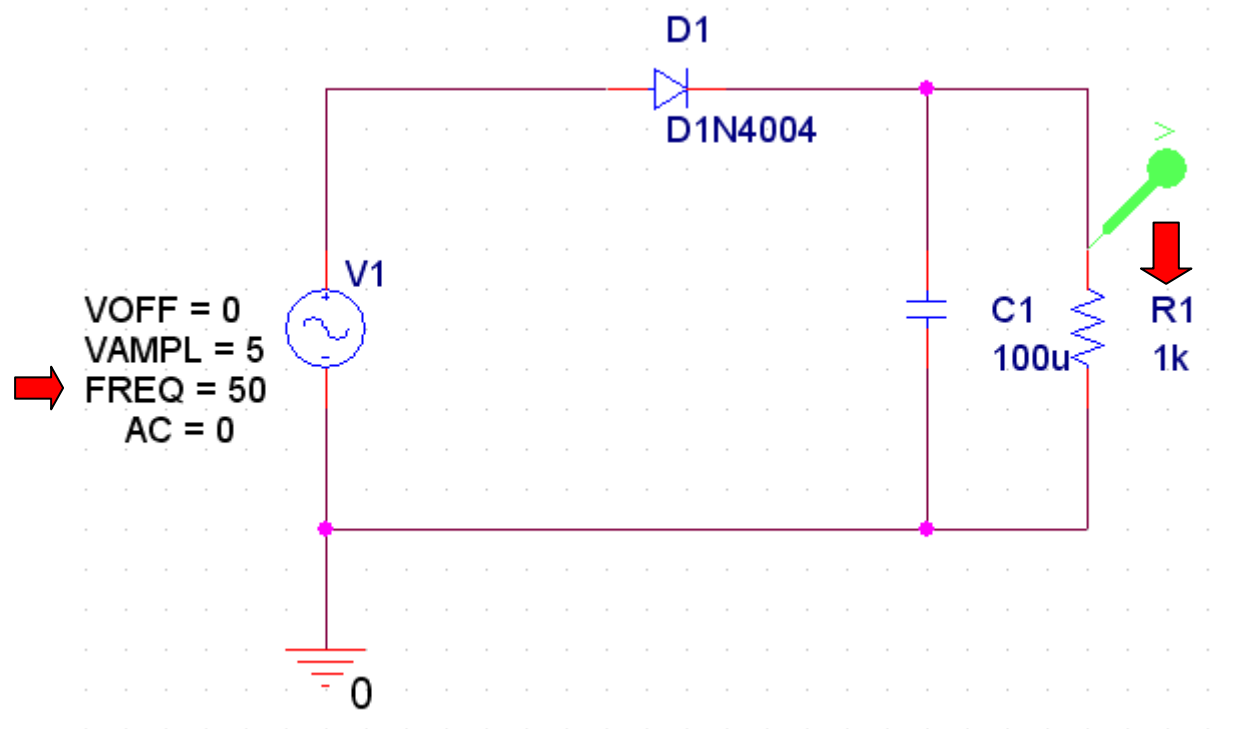
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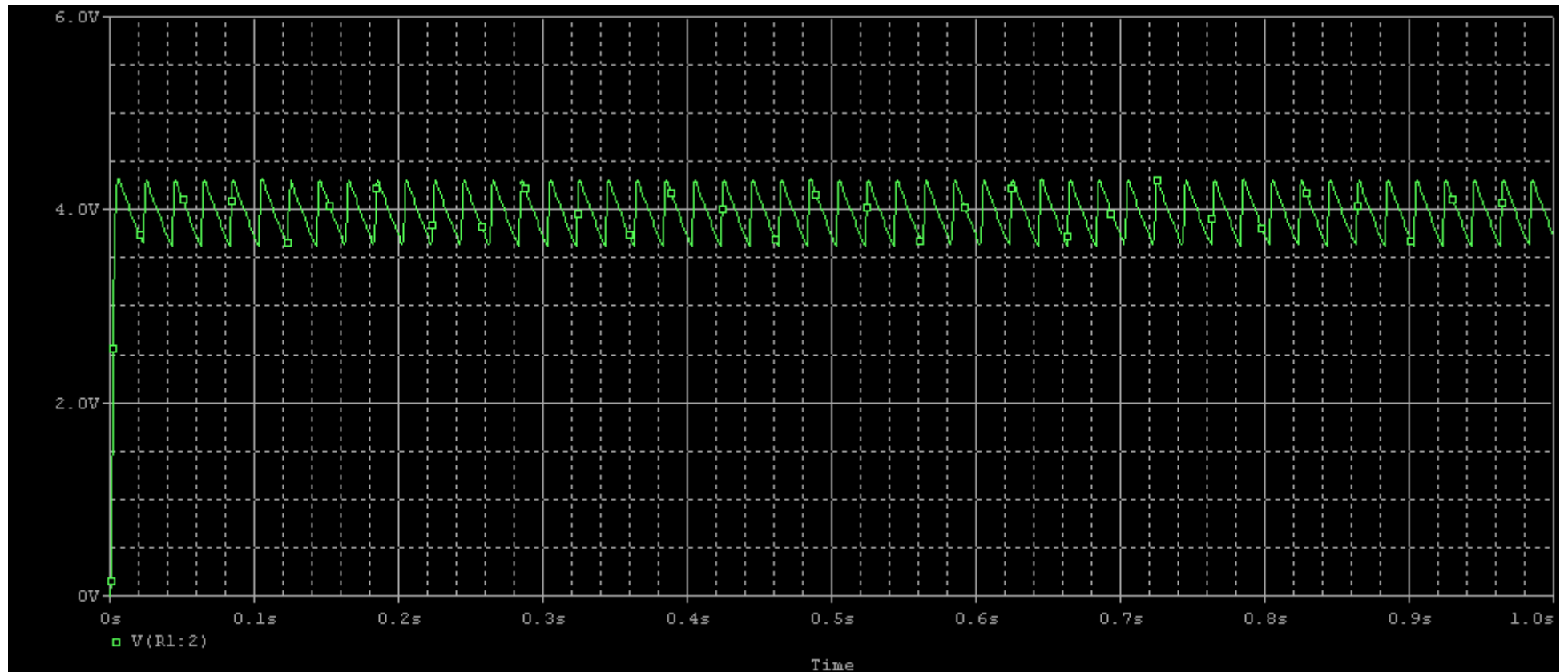
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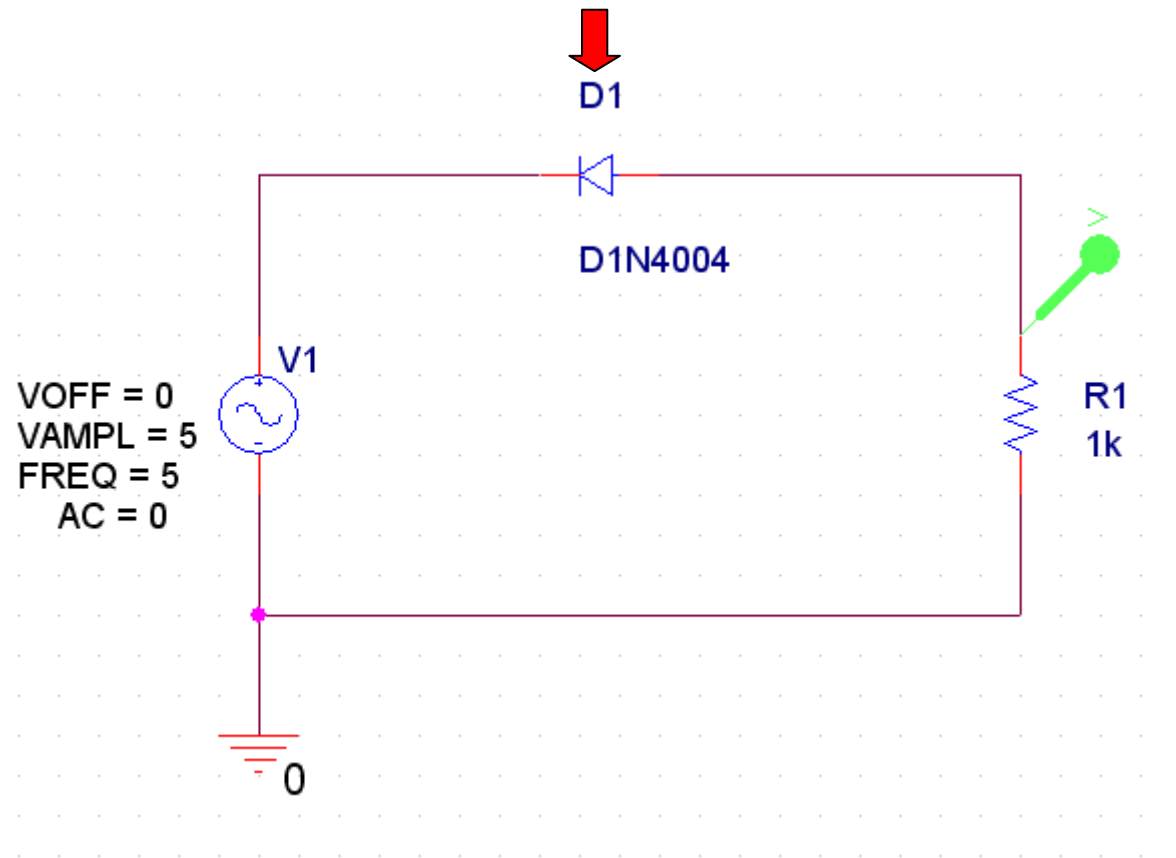
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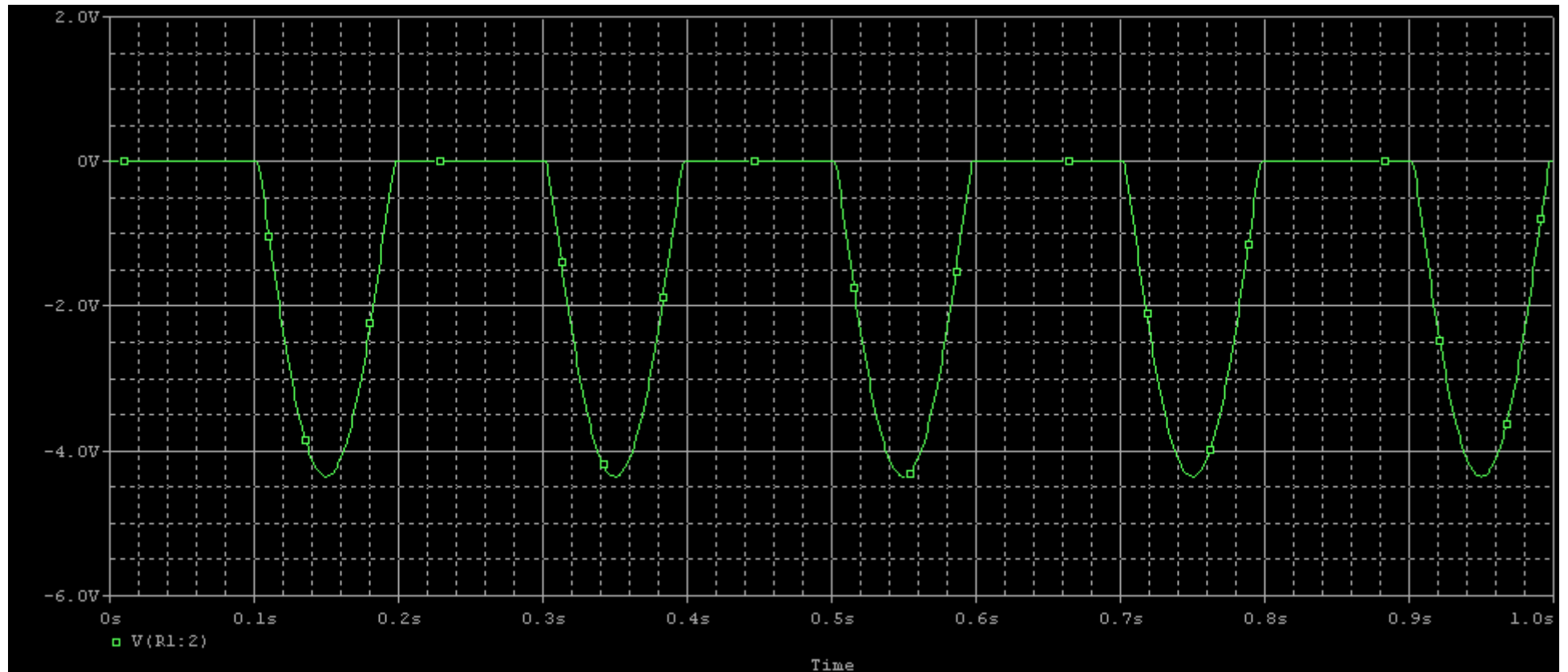
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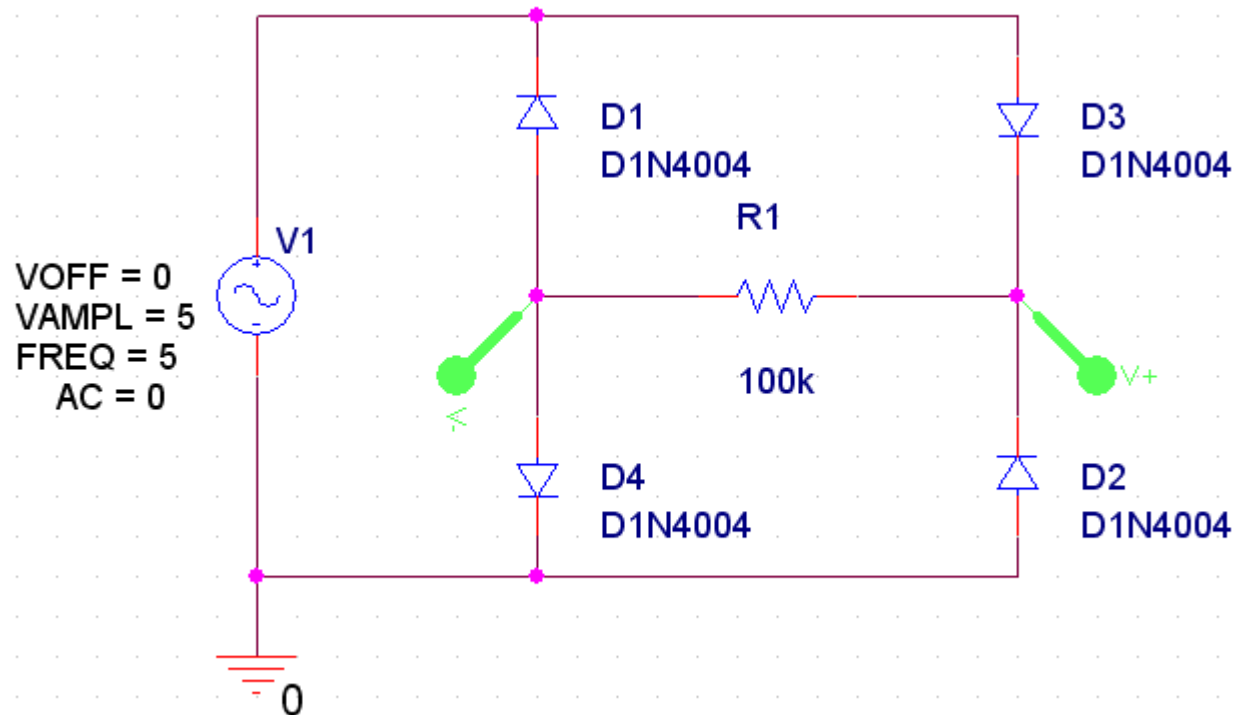
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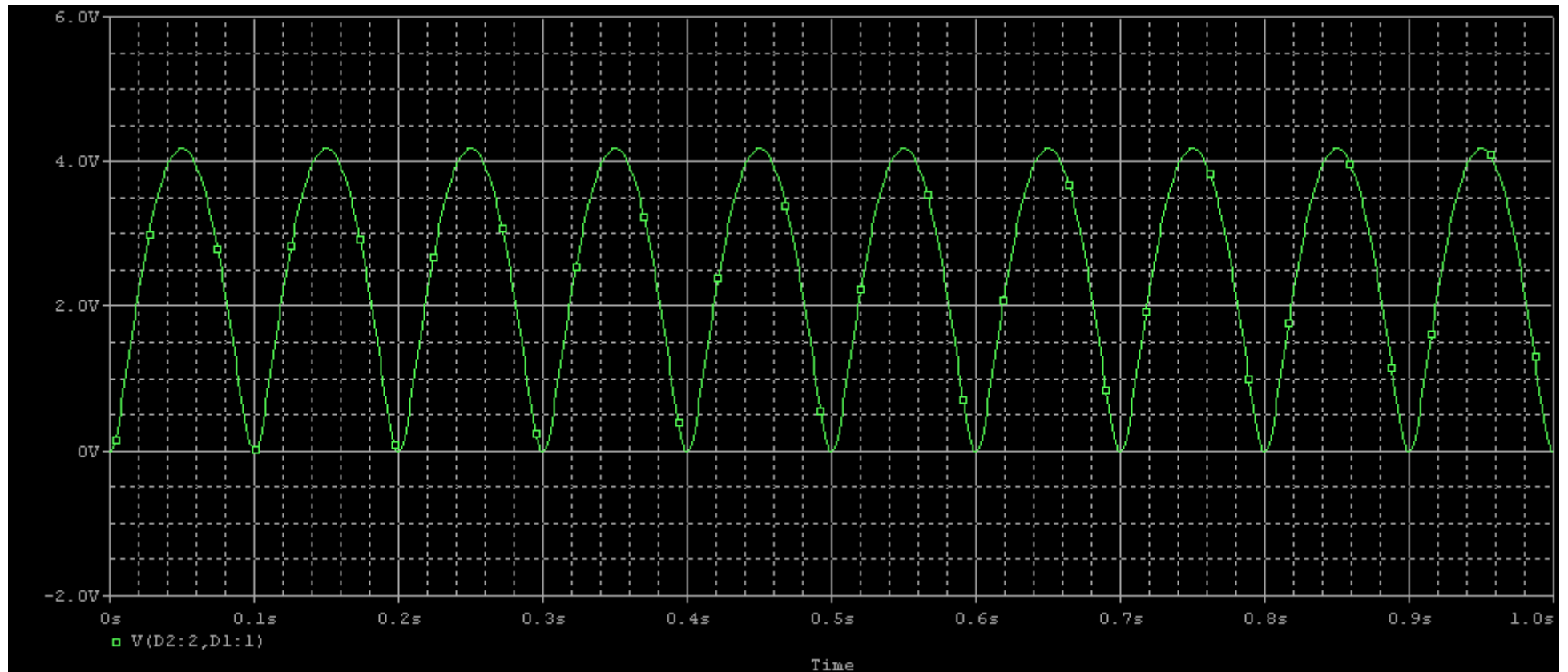
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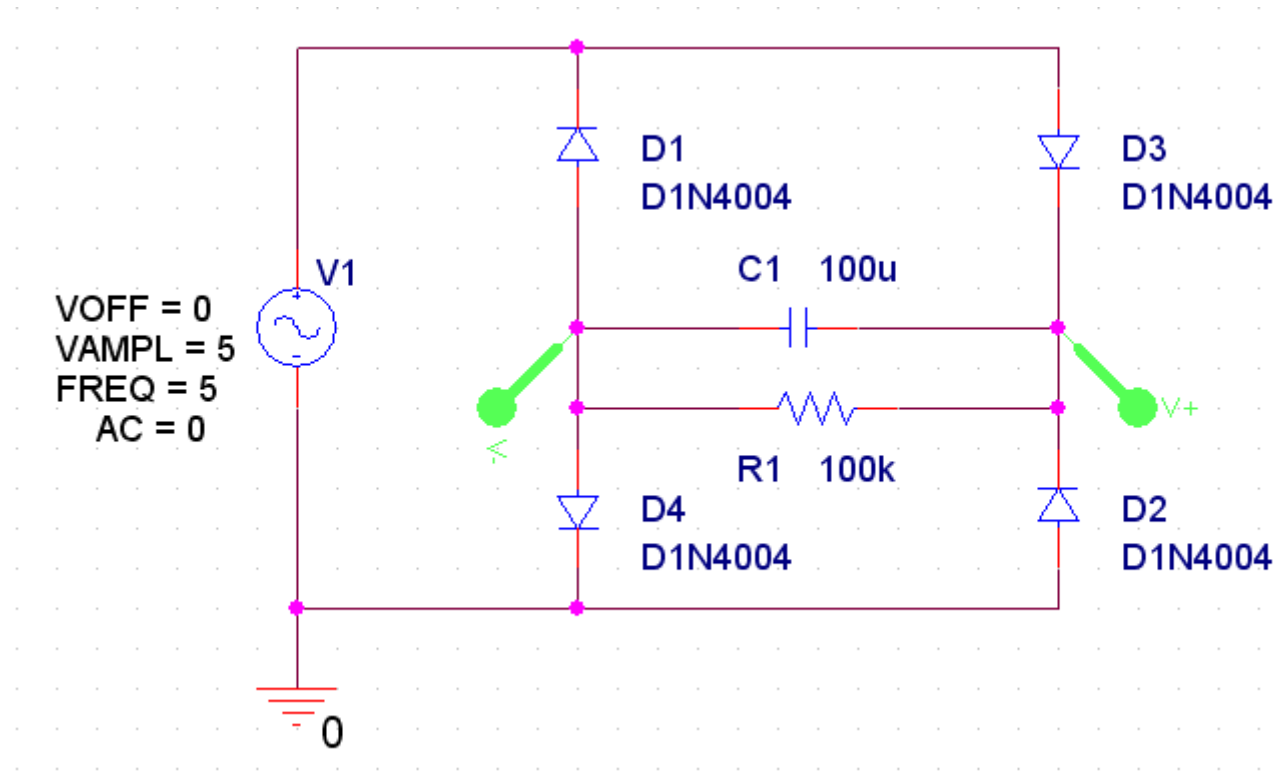
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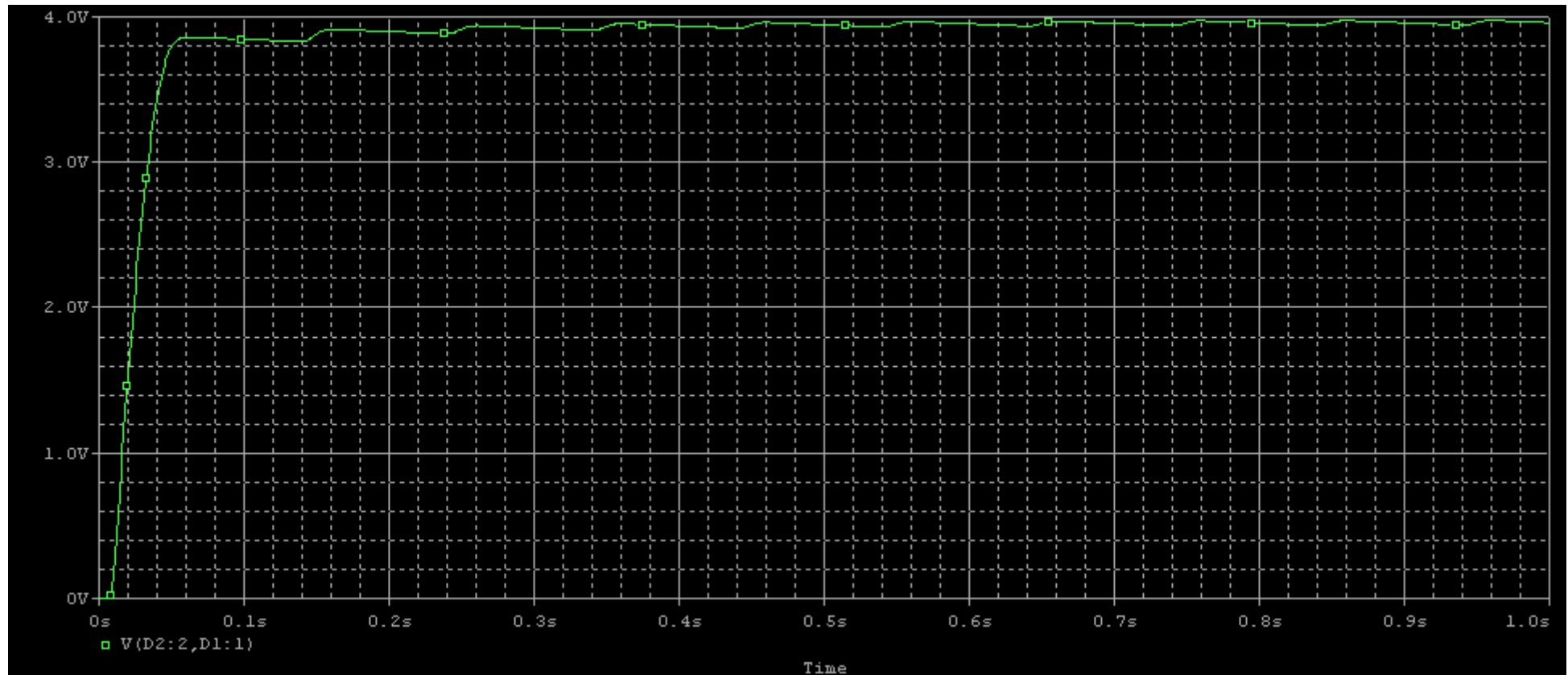
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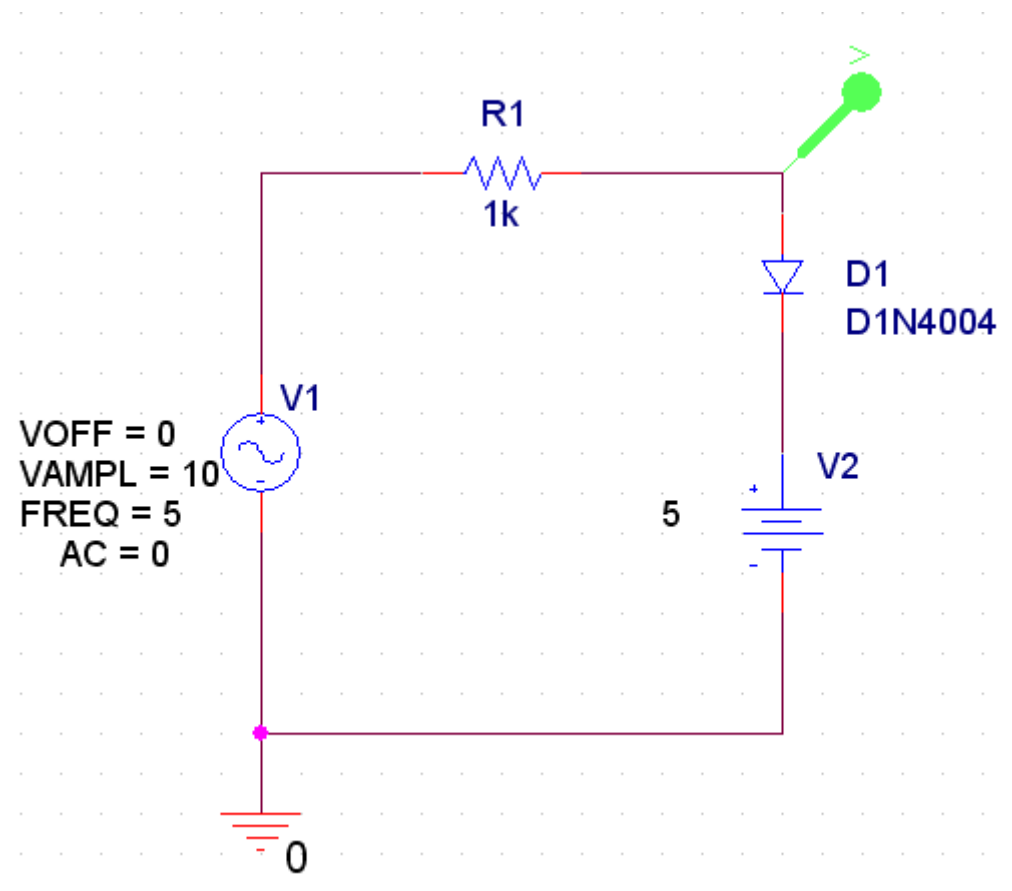
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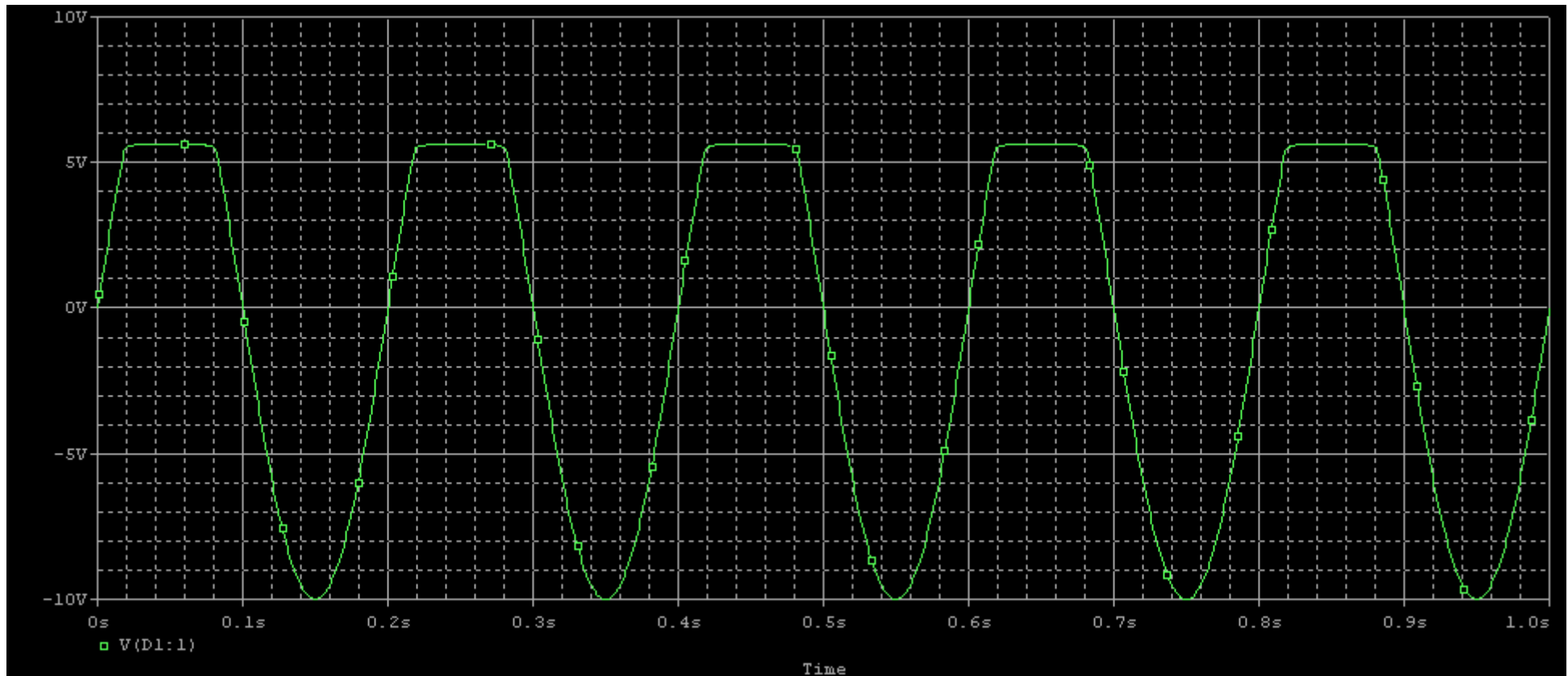
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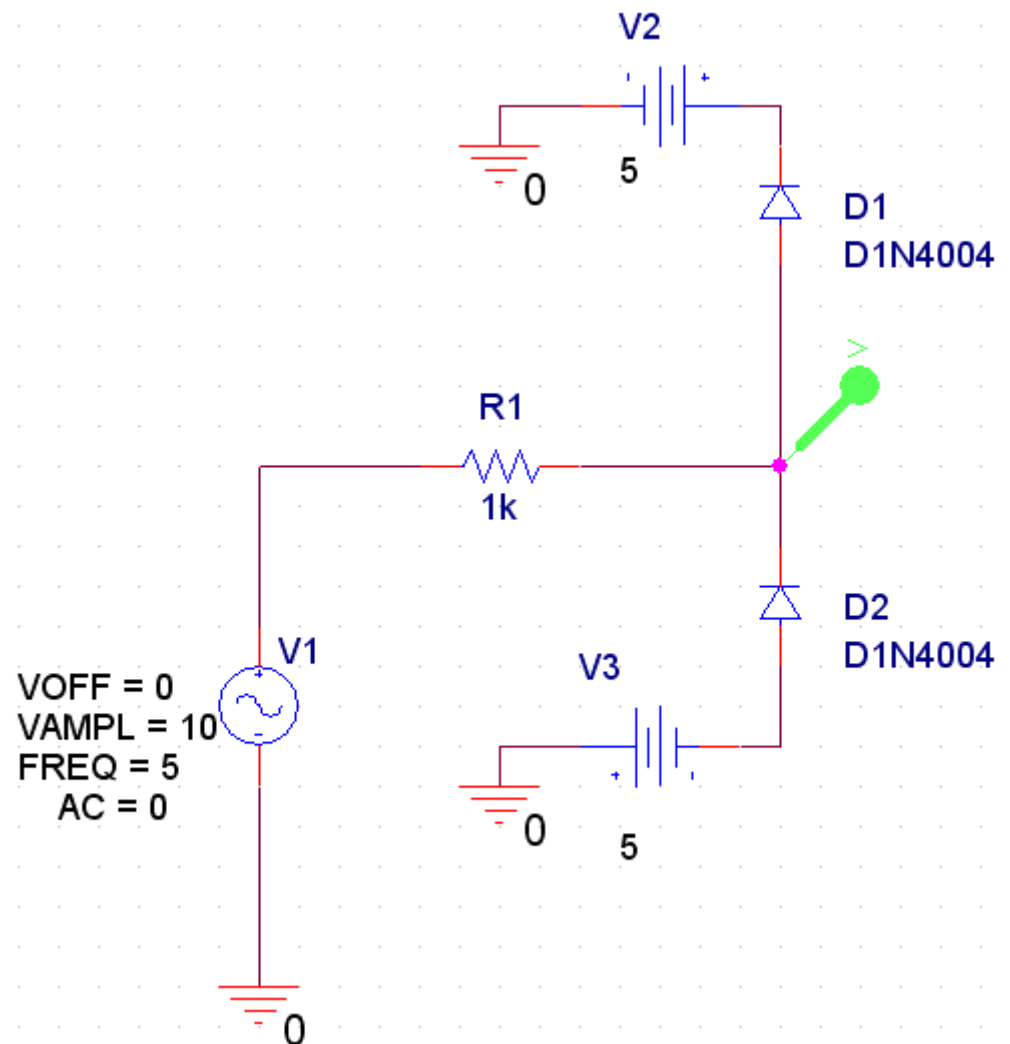
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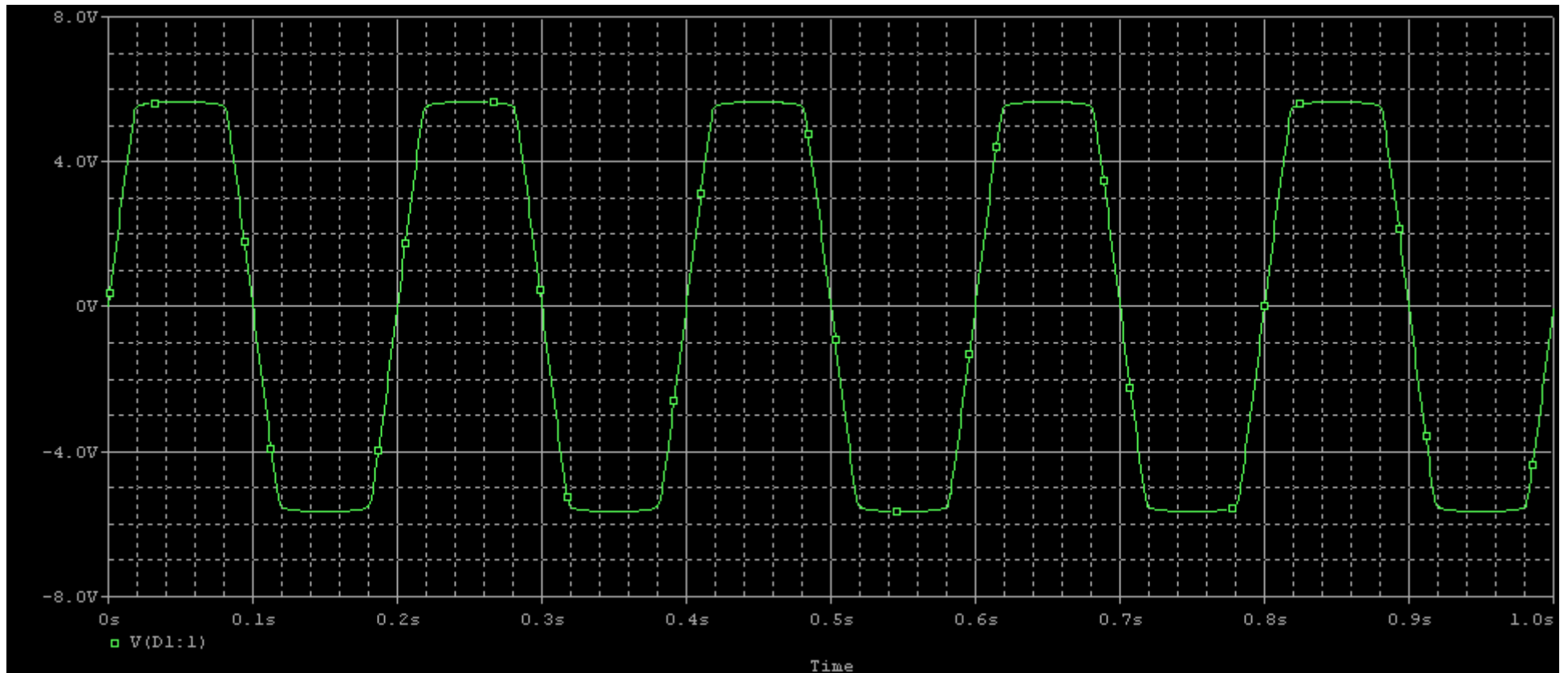
리미터




리미터



리미터



제너다이오드 정전압



1N4728A THRU 1N4764A
1W ZENER DIODE

VOLTAGE RANGE
3.3 to 100 Volts

FEATURES

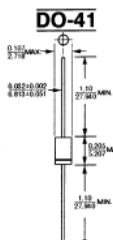
- * 3.3 thru 100 volt voltage range
- * High surge current rating
- * Higher voltages available, see 1EZ series

MECHANICAL CHARACTERISTICS

- * CASE: Molded encapsulation, axial lead package (DO-41).
- * FINISH: Corrosion resistant. Leads are solderable.
- * THERMAL RESISTANCE: 45°C/Watt junction to lead at 0.375 inches from body.
- * POLARITY: banded end is cathode.
- * WEIGHT: 0.4 grams (Typical).

MAXIMUM RATINGS

Junction and Storage temperature: -65°C to +200°C
DC Power Dissipation: 1 Watt
Power Derating: 10mW/°C, from 100°C
Forward Voltage @ 200mA: 1.2 Volts



DO-41

All dimensions in 100µm

*** ELECTRICAL CHARACTERISTICS @ 25°C**

JEDEC TYPE NUMBER (Note 1)	ZENER VOLTAGE (VZ) (Note 4)	TEST CURRENT (IZT)	MAXIMUM DYNAMIC IMPEDANCE Zzt @ IZT (Note 2)	MAXIMUM REVERSE CURRENT IR @ VR	TEST VOLTAGE (VR)	MAXIMUM REGULATOR CURRENT (IZM) (Note 3)	MAXIMUM KNEE IMPEDANCE (Zzk @ Izk) (Note 2)	TEST CURRENT (IZT)	MAXIMUM (SURGE) CURRENT (Is)
	VOLTS	mA	OHMS	µA	VOLTS	mA	OHMS	mA	mA
1N4728A	3.3	76	10	100	1	276	400	1.0	1360
1N4729A	3.6	69	10	100	1	252	400	1.0	1200
1N4730A	3.9	64	9	90	1	234	400	1.0	1130
1N4731A	4.3	58	9	10	1	217	400	1.0	1070
1N4732A	4.7	53	8	10	1	193	500	1.0	970
1N4733A	5.1	48	7	10	1	176	500	1.0	890
1N4734A	5.6	45	5	10	2	162	600	1.0	810
1N4735A	6.2	41	2	10	3	146	700	1.0	730
1N4736A	6.8	37	3.5	10	4	130	700	1.0	660
1N4737A	7.5	34	4.0	10	5	121	700	0.5	606
1N4738A	8.2	31	4.5	10	6	110	700	0.5	560
1N4739A	9.1	28	5.0	10	7	100	700	0.5	500
1N4740A	10	25	7	10	7.6	91	700	0.25	454
1N4741A	11	23	8	5	8.4	83	700	0.25	414
1N4742A	12	21	9	5	9.1	76	700	0.25	360
1N4743A	13	19	10	5	9.9	69	700	0.25	344
1N4744A	15	17	14	5	11.4	61	700	0.25	304
1N4745A	16	15.5	16	5	12.2	57	700	0.25	286
1N4746A	18	14	20	5	13.7	50	750	0.25	250
1N4747A	20	12.5	22	5	15.2	45	750	0.25	225
1N4748A	22	11.5	23	5	16.7	41	750	0.25	206
1N4749A	24	10.5	25	5	18.2	38	750	0.25	190
1N4750A	27	9.5	36	5	20.6	34	750	0.25	170
1N4751A	30	8.5	40	5	22.8	30	1000	0.25	150
1N4752A	33	7.5	46	5	25.1	27	1000	0.25	136
1N4753A	36	7.0	50	5	27.4	25	1000	0.25	125
1N4754A	39	6.5	60	5	29.7	23	1000	0.25	115
1N4755A	43	6.0	70	5	32.7	22	1500	0.25	110
1N4756A	47	5.5	80	5	36.8	19	1500	0.25	96
1N4757A	51	5.0	96	5	38.8	18	1500	0.25	90
1N4758A	56	4.5	110	5	42.6	16	2000	0.25	80
1N4759A	62	4.0	125	5	47.1	14	2000	0.25	70
1N4760A	68	3.7	150	5	51.7	13	2000	0.25	66
1N4761A	75	3.3	175	5	56.0	12	2000	0.25	60
1N4762A	82	3.0	200	5	62.2	11	3000	0.25	56
1N4763A	91	2.8	250	5	69.2	10	3000	0.25	50
1N4764A	100	2.5	350	5	76.0	9	3000	0.25	45

* JEDEC Registered Data

JINAN GUDE ELECTRONIC DEVICE CO., LTD.

제너다이오드 정전압

FEATURES

→ * 3.3 thru 100 volt voltage range

* High surge current rating

* Higher voltages available, see 1EZ series

MECHANICAL CHARACTERISTICS

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* FINISH: Corrosion resistant. Leads are solderable.

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→ DC Power Dissipation: 1 Watt

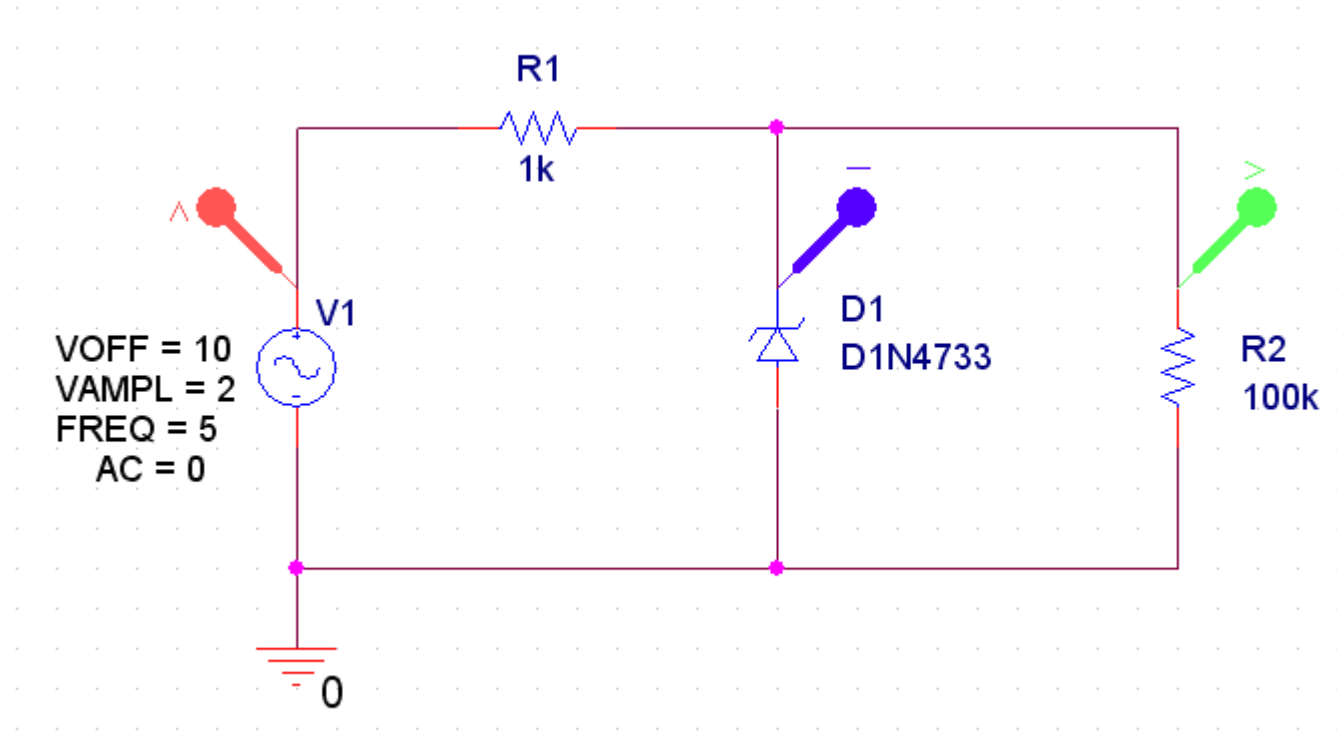
Power Derating: 10mW/°C, from 100°C

Forward Voltage @ 200mA: 1.2 Volts

* ELECTRICAL CHARACTERISTICS @ 25°C

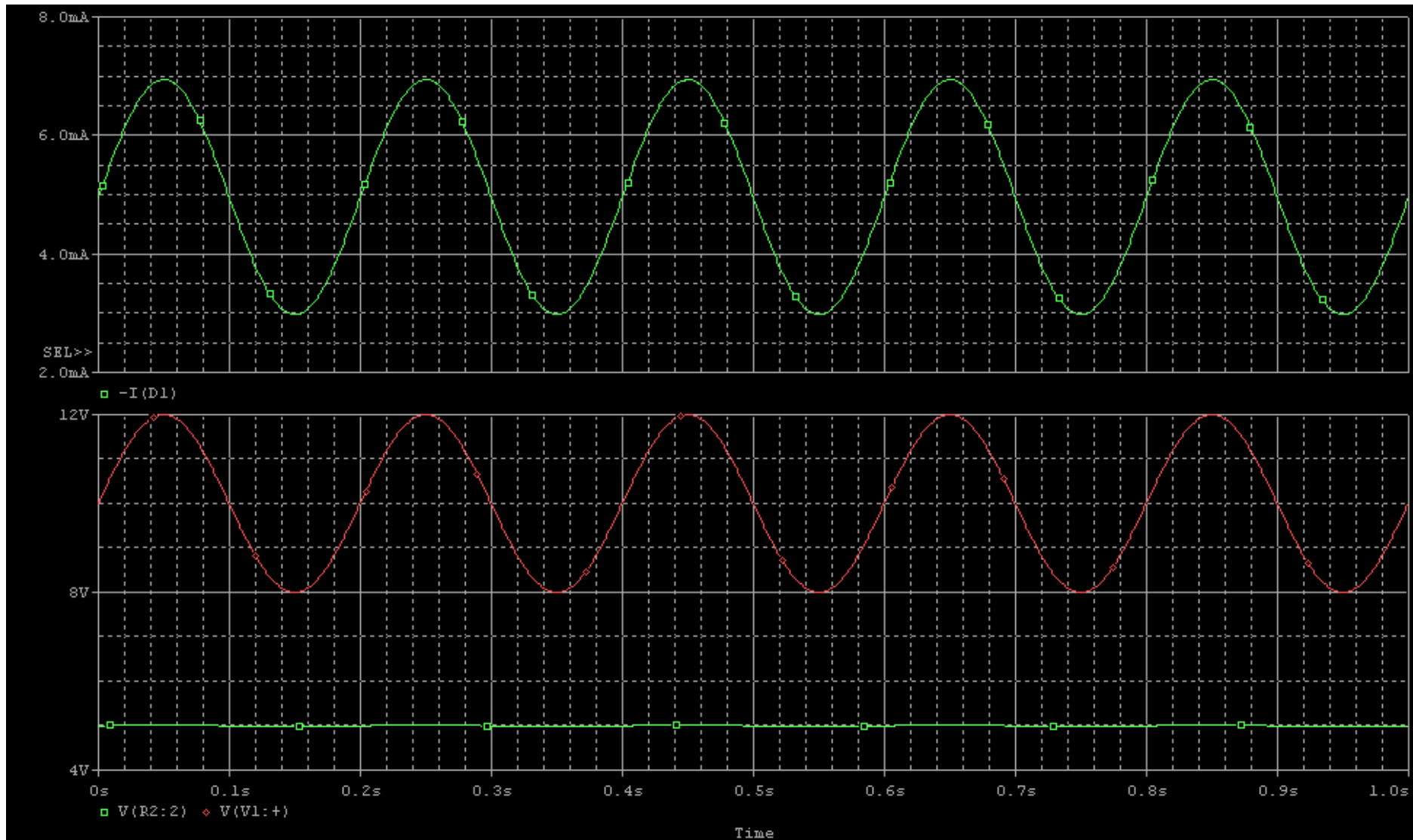
JEDEC TYPE NUMBER (Note 1)	ZENER VOLTAGE (V _Z) (Note 4)	TEST CURRENT I _{ZT}	MAXIMUM DYNAMIC IMPEDANCE Z _{zt} @ I _{ZT} (Note 2)	MAXIMUM REVERSE CURRENT I _R @ V _R	TEST VOLTAGE (V _R)	MAXIMUM REGULATOR CURRENT (I _{ZM}) T _A = 50°C
	VOLTS	mA	OHMS	μA	VOLTS	mA
1N4728A	3.3	76	10	100	1	276
1N4729A	3.6	69	10	100	1	252
1N4730A	3.9	64	9	50	1	234
1N4731A	4.3	58	9	10	1	217
1N4732A	4.7	53	8	10	1	193
1N4733A	5.1	49	7	10	1	178
1N4734A	5.6	45	5	10	2	162
1N4735A	6.2	41	2	10	3	146

제너다이오드 정전압

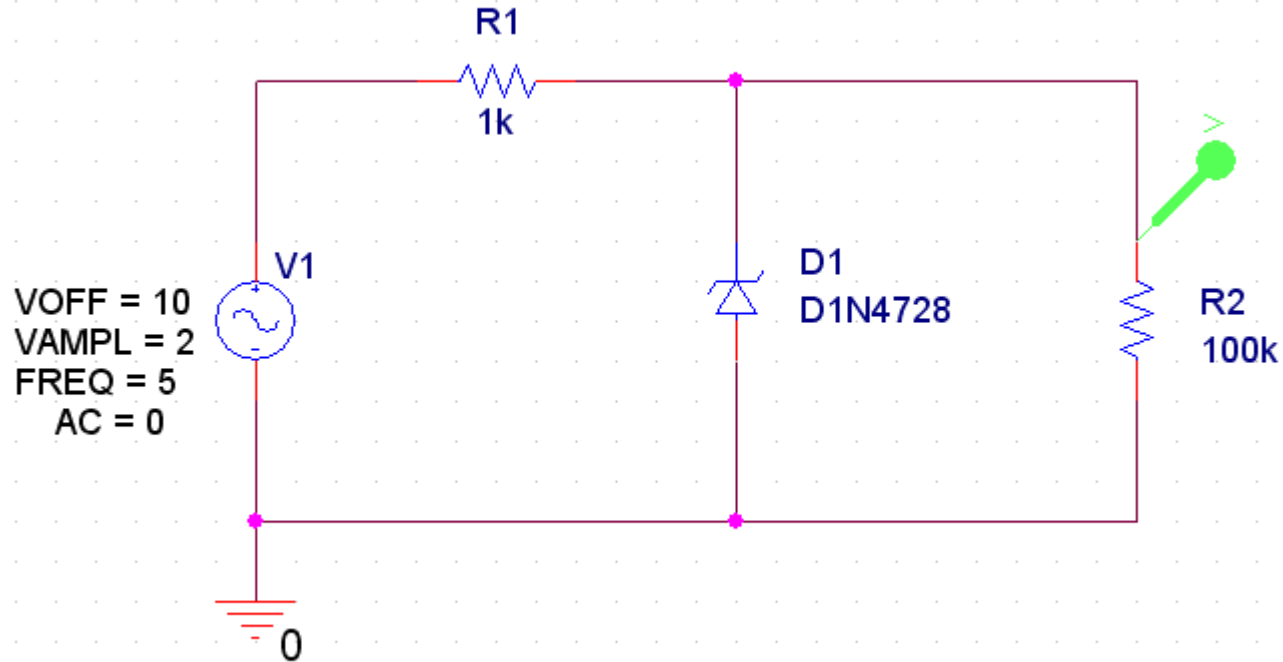


DIODE>>D1N4733

제너다이오드 정전압



제너다이오드 정전압



DIODE>>D1N4728

제너다이오드 정전압

