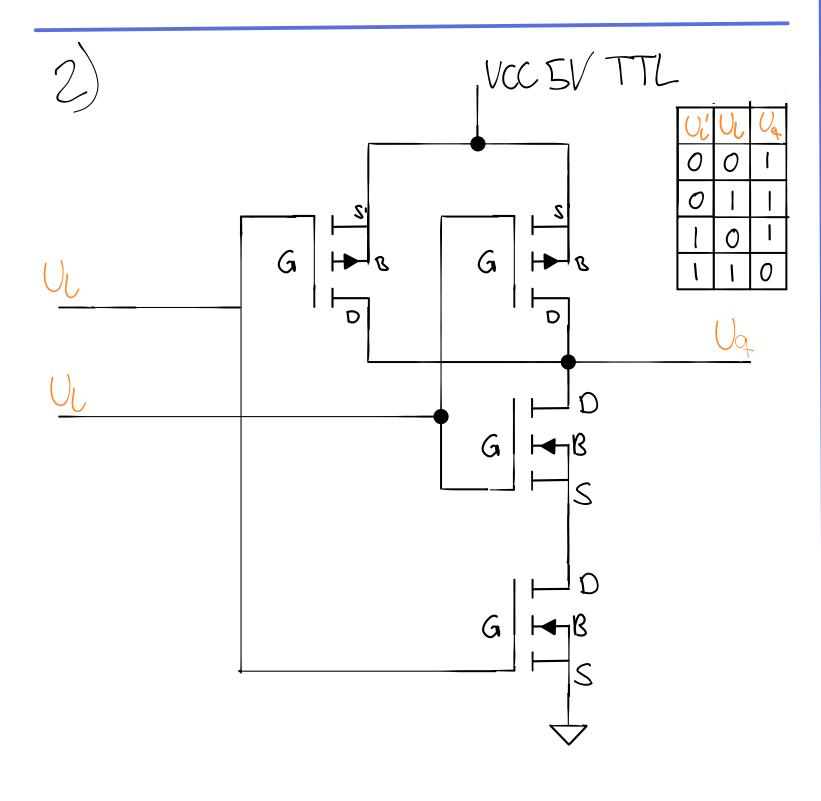


Das Gate ist durch S102 Schicht isoliert.

=) Gate ist nicht intern verbunden. Wie auch das Schaltsymbol andeutet. Dies morcht einen unipolaren Tromkistor aus.



7.3)

2VN2106A:

max. Vos = 60V

VGSAH) = min 0,8V max 2,4V

@ ID = 1/mA 1 Vos = Vas

Betriebstemperaturberaidn:

-55 Lis 150C<sup>2</sup>

PARAMETER			SYMBOL		VALUE	UNIT
Drain-Source Voltage			V <sub>DS</sub>		60	V
Continuous Drain Current at T <sub>amb</sub> =25°C			I <sub>D</sub>		450	mA
Pulsed Drain Current			I <sub>DM</sub>		8	Α
Gate Source Voltage			V <sub>GS</sub>		± 20	V
Power Dissipation at T <sub>amb</sub> =25°C			P <sub>tot</sub>		700	mW
Operating and Storage Temperature Range			T <sub>j</sub> :T <sub>stg</sub>		-55 to +150	°C
ELECTRICAL CHARACTERIS	STICS (at	Tamb	_ = 25°C	unle	ss otherwise s	tated).
PARAMETER	SYMBOL	MBOL MIN.		UNIT	CONDITIONS.	
Drain-Source Breakdown Voltage	BV <sub>DSS</sub>	60		V	I <sub>D</sub> =1mA, V <sub>GS</sub> =0V	
Gate-Source Threshold Voltage	V <sub>GS(th)</sub>	0.8	2.4	V	ID=1mA, V <sub>DS</sub> = V <sub>GS</sub>	
Gate-Body Leakage	I <sub>GSS</sub>		20	nA	V <sub>GS</sub> =± 20V, V <sub>DS</sub> =0V	
Zero Gate Voltage Drain Current	I <sub>DSS</sub>		500 100	nΑ μΑ	V <sub>DS</sub> =60 V, V <sub>GS</sub> =0 V <sub>DS</sub> =48 V, V <sub>GS</sub> =0V, T=125°C(2)	
On-State Drain Current(1)	I <sub>D(on)</sub>	2		Α	V <sub>DS</sub> =18V, V <sub>GS</sub> =10V	
Static Drain-Source On-State Resistance (1)	R <sub>DS(on)</sub>		2	Ω	V <sub>GS</sub> =10V,I <sub>D</sub> =1A	
Forward Transconductance (1)(2)	g <sub>fs</sub>	300		mS	V <sub>DS</sub> =18V,I <sub>D</sub> =1A	
Input Capacitance (2)	C <sub>iss</sub>		75	pF		
Common Source Output Capacitance (2)	C <sub>oss</sub>		45	pF	V <sub>DS</sub> =18 V, V <sub>GS</sub> =0V, f=1MHz	
Reverse Transfer Capacitance (2)	C <sub>rss</sub>		20	pF		

ZW2106A:

max. VDs=-60V

VGS(H) = min-1,5V max 3,5V

Q ID=-1mA 1 VOs=VGS

Retriebstemperaturberaidn:
-55 bis 1500°

PARAMETER			SYMBOL		VALUE	UNIT	
Drain-Source Voltage			V <sub>DS</sub>		-60	V	
Continuous Drain Current at T <sub>amb</sub> =25°C			I <sub>D</sub>		-280	mA	
Pulsed Drain Current			I <sub>DM</sub>		-4	Α	
Gate Source Voltage			V <sub>GS</sub>		± 20	V	
Power Dissipation at T <sub>amb</sub> =25°C			P <sub>tot</sub>		700	mW	
Operating and Storage Temperature Range			T <sub>j</sub> :T <sub>stg</sub>		-55 to +150	°C	
ELECTRICAL CHARACTER	ISTICS (a	t T <sub>am</sub>	<sub>ab</sub> = 25	°C unl	ess otherwise	stated).	
PARAMETER	SYMBOL		MAX.		CONDITIONS.		
Drain-Source Breakdown Voltage	BV <sub>DSS</sub>	-60		V	$I_D=-1mA$ , $V_{GS}=0V$		
Gate-Source Threshold Voltage	V <sub>GS(th)</sub>	-1.5	-3.5	V	ID=-1mA, V <sub>DS</sub> = V <sub>GS</sub>		
Gate-Body Leakage	I <sub>GSS</sub>		20	nA	V <sub>GS</sub> =± 20V, V <sub>DS</sub> =0V		
Zero Gate Voltage Drain Current	I <sub>DSS</sub>		-0.5 -100	μΑ μΑ	V <sub>DS</sub> =-60 V, V <sub>GS</sub> =0 V <sub>DS</sub> =-48 V, V <sub>GS</sub> =0V, T=125°C(2)		
On-State Drain Current(1)	I <sub>D(on)</sub>	-1		Α	V <sub>DS</sub> =-18 V, V <sub>GS</sub> =-10V		
Static Drain-Source On-State Resistance (1)	R <sub>DS(on)</sub>		5	Ω	V <sub>GS</sub> =-10V,I <sub>D</sub> =-500mA		
Forward Transconductance (1)(2)	g <sub>fs</sub>	150		mS	V <sub>DS</sub> =-18V,I <sub>D</sub> =-500mA		
Input Capacitance (2)	C <sub>iss</sub>		100	pF	V <sub>DS</sub> =-18V, V <sub>GS</sub> =0V, f=1MHz		
Common Source Output Capacitance (2)	C <sub>oss</sub>		60	pF			
Reverse Transfer Capacitance (2)	C <sub>rss</sub>		20	pF			
Turn-On Delay Time (2)(3)	t <sub>d(on)</sub>		7	ns	V <sub>DD</sub> ≈-18V, I <sub>D</sub> =-500mA		
Rise Time (2)(3)	t <sub>r</sub>		15	ns			
Turn-Off Delay Time (2)(3)	t <sub>d(off)</sub>		12	ns			
Fall Time (2)(3)	t <sub>f</sub>		15	ns			

Da es sich umeine Transistor Transistor Logik Schaltung handelt würde sich eine Spannung für LOW von OV n Für HIGH von 5Vanbieten