



NJU7301

TERMINAL DESCRIPTION

No.	SYMBOL	FUNCTION	No.	SYMBOL	FUNCTION
1	I N1	Control Signal Input	9	1 N3	Control Signal Input
2	D1	Laurent (Outraint 1	10	D3	Input/Output 3
3	S1	Input/Output 1	11	S3	
4	V-	Negative (V ⁻) Power Supply	12	NC	Non Connection
5	GND	Ground	13	V+	Positive (V ⁺) Power Supply
6	S4	Lunut (Qutant A	14	S2	Innut/Outnut 0
7	D4	Input/Output 4	15	D2	Input/Output 2
8	I N4	Control Signal Input	16	I N2	Control Signal Input

MADE ABSOLUTE MAXIMUM RATINGS

(Ta=25℃)

PARAMETER	SYMBOL	RATINGS	UNIT	
	$V^{+} - V^{-}$	44	V	
Supply Voltage	V ⁺ - GND	19		
	GND − V [−]	25		
Input Voltage	VI,Vs,VD	V ⁻ -0.5 ~ V ⁺ +0.5 *	۷	
	I I	30		
Input Current	Is,ID Continuous	20	mA	
	Peak Value (PW=1ms,Duty0.1)	70		
Power Dissipation	PD	500 (DIP) 200 (DMP)	mW	
Operating Temperature Range	Topr	0 ~+ 70	ĉ	
Storage Temperature Range	Tstg	- 65 ~ + 125	ĉ	

* V⁺+0.5V must be 44V or less.

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ELECTRICAL CHARACTERISTICS (DC CHARACTERISTICS)

ELECTRICAL CHARACTERIS		NANAUTENTO	1103/		(V ⁺ =15	V , V ⁻ =-	15V , GN	ID=0V)	
	0/000	CONDITIONS		TYP	МАХ			UNIT	
PARAMETER	SYMBOL			25℃	0°C	25℃	70℃	UNTI	
Analog Signal Range	VANALOG			±15		±15	±15	۷	
O		V _{IN} =0.8V	V _D =10V	105	200	200	250	Ω	
On-state Resistance	Ron	ls =−1mA	V _D =-10V	115	200	200	250		
Source-off		V =0 AV	V_{s} =14V, V_{D} =-14V	0.01		5	100		
Leakage Current	l₅(off)	V1=2.4V	V_{s} =-14V, V_{D} =14V	-0.02		- 5	-100	nA	
Drain-off	1 ((()) = 0 ()	V -2 AV	$V_{\rm D}$ =14V, $V_{\rm S}$ =-14V	0.01		5	100	nA	
Leakage Current	l⊳(off)	²) V ₁ =2.4V	$V_{\rm D}$ =-14V, $V_{\rm S}$ =14V	-0.02		- 5	-100	na	
Drain-on	l∍(on)	(om)	V₁=0.8V	$V_{\rm D}$ = $V_{\rm S}$ =14V	0.1		5	200	nA
Leakage Current		1D(ON) VI-0.0V	V _D =V _S =-14V	-0.15		- 5	-200	11A	
	Іін	V1=2.4V		-0.0004		- 1	- 10	μA	
Input Current		V1=15V		0.003		1	10		
	 11	V1=0V		-0.0004		- 1	- 10		
Quissesst Quant	+	V =0 or 2 AV		0.9		2		mA	
Quiescent Current	- V₁=0 or 2.4\		4V	-0.3		-1			

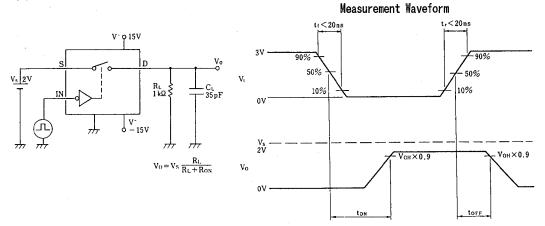
SWITCHING CHARACTERISTICS

$(V^+=15V, V^-=-15V, GND=0V)$

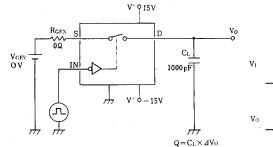
					(1 10		101 1 00	
	SYMBOL	CONDITIONS		ТҮР	MAX			
PARAMETER				25℃	3 °0	25℃	70℃	UNIT
Turn-on Time	ton	R⊥=1kΩ, C⊥=35pF		480		600		ns
Turn-off Time	toff			370		450		
Charge Injection	Q	$C_{\rm L} = 1000 \textrm{pF}$, $V_{\rm GEN} = 0 \textrm{V}$, $R_{\rm GEN} = 0 \Omega$		20				Oq
Source-Off Capacit.	Cs(off)		Vs=0V, V1=5V	5				
Drain-Off Capacit.	C _D (off)		$V_{\rm D}=0V$, $V_{\rm I}=5V$	5				рF
Channel-On Capacitance	C₋(on) +C₅(on)	f=100kHz	V _D =V _S =0V, V ₁ =0V	16				рг
Off Isolation	OIRR		V -9V	70				dB
Channel-to-channel Crosstalk	CCRR		$V_{s}=2V_{P-P}$, R _L =75 Ω	90				uD

MEASUREMENT CIRCUITS

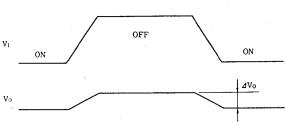
(1) Turn-on/Turn-off Time



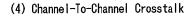
(2) Charge Injection

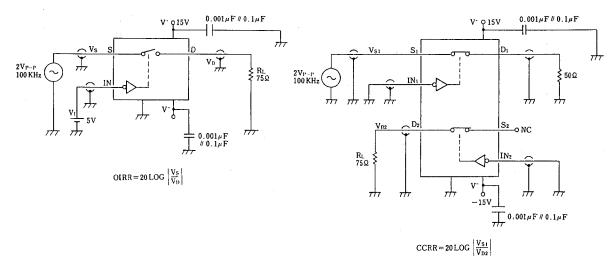


Measurement Waveform



(3) Off Isolation





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