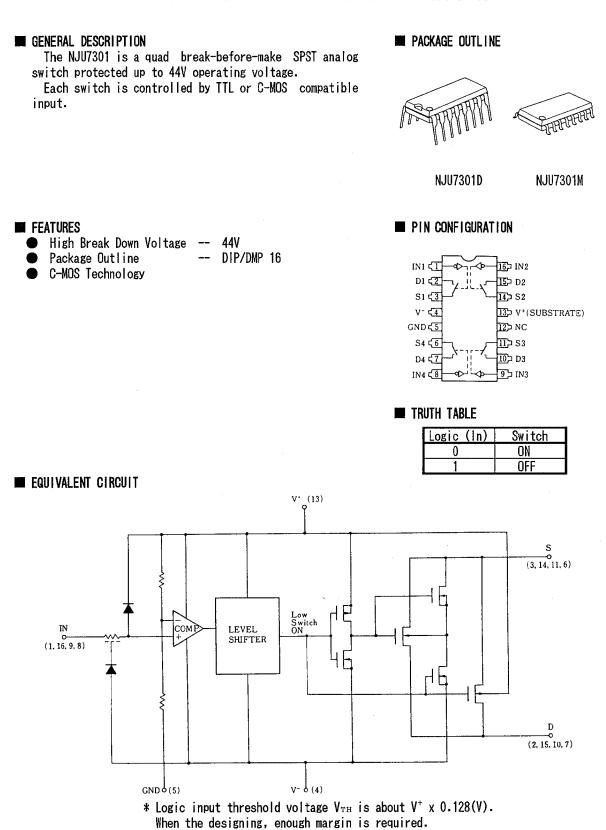
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C-MOS QUAD SPST ANALOG SWITCH



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TERMINAL DESCRIPTION

No.	SYMBOL	FUNCTION	No.	SYMBOL	FUNCTION
1	I N1	Control Signal Input	9	1 N3	Control Signal Input
2	D1	1	10	D3	1
3	S1	Input/Output 1	11	S3	Input/Output 3
4	V-	Negative (V ⁻) Power Supply	12	NC	Non Connection
5	GND	Ground	13	V+	Positive (V ⁺) Power Supply
6	S4		14	S2	1t (Quitarut Q
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		
Supply Voltage	V ⁺ – GND	19	۷	
	GND - V-	25		
Input Voltage	VI,Vs,Vd	V ⁻ -0.5 \sim V ⁺ +0.5 *	۷	
	Ιı	30	mA	
Input Current	ls,l⊳ Continuous	20		
	Peak Value (PW=1ms,Duty0.1)	70		
Power Dissipation	PD	500 (DIP) 200 (DMP)	mW	
Operating Temperature Range	Topr	0 ~+ 70	C	
Storage Temperature Range	Tstg	- 65 ~ + 125	ĉ	

 $* V^++0.5V$ must be 44V or less.

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ELECTRICAL CHARACTERISTICS (DC CHARACTERISTICS)

ELECTATUAL UNANACIENTS			11007		(V ⁺ =15	V , V ⁻ =-	15V , GN	ID=OV)		
PARAMETER	SYMBOL	CONDITIONS		ТҮР		MAX		UNIT		
PANAMEIEN	STMBUL			25℃	0°C	25℃	70℃			
Analog Signal Range	VANALOG			±15		± 15	±15	۷		
	_	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	1 (60)	V1=2.4V	Vs=14V,Vd=-14V	0.01		5	100	nA		
Leakage Current	l₅(off)		Vs=-14V,Vd=14V	-0.02		- 5	-100			
Drain-off	1 (V1=2.4V	V _D =14V,V _S =-14V	0.01		5	100	nA		
Leakage Current	l₀(off)		$V_{\rm D}$ =-14V, $V_{\rm S}$ =14V	-0.02		- 5	-100			
Drain-on	l∍(on)) V1=0.8V	$V_{\rm D}$ = $V_{\rm S}$ =14V	0.1		5	200	nA		
Leakage Current			V _D =V _S =-14V	-0.15		- 5	-200			
	Іін	V1=2.4V		-0.0004		- 1	- 10	μA		
Input Current		V1=15V		0.003		1	10			
	1 L	V1=0V		-0.0004		- 1	- 10			
Qui coccut Quuncut	+	V:=0 or 2.4V		0.9		2		mA		
Quiescent Current	l-			-0.3		-1				

SWITCHING CHARACTERISTICS

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

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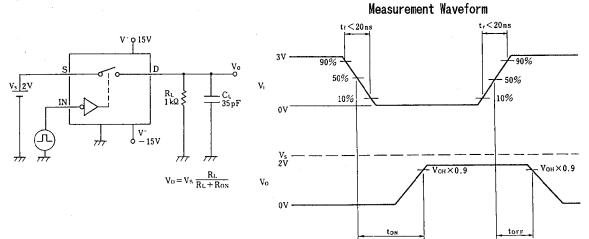
	0////001	CONDITIONS		ТҮР		MAX		UNIT	
PARAMETER	SYMBOL			25℃	0°C	25℃	70℃	UNTT	
Turn-on Time	ton	R _L =1k Ω , C _L =35pF		480		600		ns	
Turn-off Time	toff			370		450			
Charge Injection	Q	$C_{\rm L}=1000 \text{pF}$, $V_{\rm GEN}=0V$, $R_{\rm GEN}=0\Omega$		20				pC	
Source-Off Capacit.	Cs(off)		V_{s} =0V, V_{I} =5V	5					
Drain-Off Capacit.	C _D (off)		$V_{\rm D}$ =0V, $V_{\rm I}$ =5V	5				рF	
Channel-On Capacitance	C₀(on) +C₅(on)	f=100kHz	V _D =V _S =0V, V ₁ =0V	16				μL	
Off Isolation	OIRR		V -9V	70				dB	
Channel-to-channel Crosstalk	CCRR		$V_s=2V_{P\bar{P}P}$, $\bar{R}_L=75\Omega$	90				UD	

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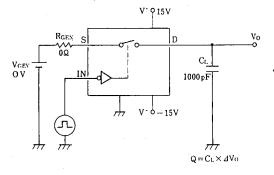
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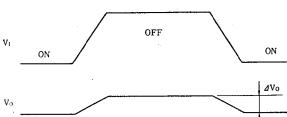
MEASUREMENT CIRCUITS

(1) Turn-on/Turn-off Time



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- (2) Charge Injection

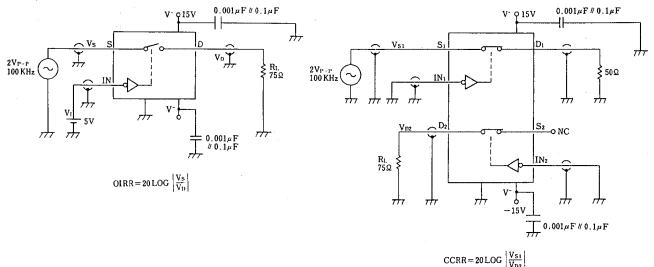




Measurement Waveform

(3) Off Isolation

(4) Channel-To-Channel Crosstalk



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MEMO

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