

■ TERMINAL DESCRIPTION

No.	SYMBOL	F U N C T I O N	No.	SYMBOL	F U N C T I O N
1	IN1	Control Signal Input	9	IN3	Control Signal Input
2	D1	Input/Output 1	10	D3	Input/Output 3
3	S1		11	S3	
4	V ⁻	Negative (V ⁻) Power Supply	12	V _L	Threshold Level Control Voltage Supply
5	GND	Ground	13	V ⁺	Positive (V ⁺) Power Supply
6	S4	Input/Output 4	14	S2	Input/Output 2
7	D4		15	D2	
8	IN4	Control Signal Input	16	IN2	Control Signal Input

■ ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

P A R A M E T E R	SYMBOL	R A T I N G S	UNIT
Supply Voltage	V ⁺ - V ⁻	40	V
	V ⁺ - GND	19	
	GND - V ⁻	25	
Threshold Control Voltage	V _L - GND	-0.5 ~ V ⁺ +0.5 *	
Input Voltage	V _I , V _S , V _D	V ⁻ -0.5 ~ V ⁺ +0.5 *	V
Input Current	I _I	30	mA
	I _S , I _D Continuous	20	
	Peak Value (PW=1ms, Duty0.1)	70	
Power Dissipation	P _D	500 (DIP) 200 (DMP)	mW
Operating Temperature Range	T _{opr}	0 ~ + 70	°C
Storage Temperature Range	T _{stg}	- 65 ~ + 125	°C

 * V⁺+0.5V must be 40V or less.

ELECTRICAL CHARACTERISTICS (DC CHARACTERISTICS)

 ($V^+=15V$, $V^-=-15V$, $GND=0V$, $V_L=5V$)

PARAMETER	SYMBOL	CONDITIONS	TYP	MAX			UNIT
			25°C	0°C	25°C	70°C	
Analog Signal Range	V_{ANALOG}		± 15		± 15	± 15	V
On-state Resistance	R_{ON}	$V_{IN}=0.8V$ $I_S=-1mA$	$V_D=10V$	105		175	Ω
			$V_D=-10V$	115		175	
Source-off Leakage Current	$I_S(off)$	$V_I=2.4V$	$V_S=14V, V_D=-14V$	0.01		5	nA
			$V_S=-14V, V_D=14V$	-0.02		-5	
Drain-off Leakage Current	$I_D(off)$	$V_I=2.4V$	$V_D=14V, V_S=-14V$	0.01		5	nA
			$V_D=-14V, V_S=14V$	-0.02		-5	
Drain-on Leakage Current	$I_D(on)$	$V_I=0.8V$	$V_D=V_S=14V$	0.1		5	nA
			$V_D=V_S=-14V$	-0.15		-5	
Input Current	I_{IH}	$V_I=2.4V$	-0.0004		-1	μA	
		$V_I=15V$	0.003		1		
	I_{IL}	$V_I=0V$	-0.0004		-1		
Quiescent Current	I^+	$V_I=0$ or $2.4V$	0.35		0.68	mA	
	I^-		0.30		0.68		
	I_L		0.5		1.2		

6

SWITCHING CHARACTERISTICS

 ($V^+=15V$, $V^-=-15V$, $GND=0V$, $V_L=5V$)

PARAMETER	SYMBOL	CONDITIONS	TYP	MAX			UNIT	
			25°C	0°C	25°C	70°C		
Turn-on Time	t_{on}	$R_L=1k\Omega$, $C_L=35pF$	460		1000		ns	
Turn-off Time	t_{off}		360		500			
Charge Injection	Q	$C_L=1000pF$, $V_{GEN}=0V$, $R_{GEN}=0\Omega$	20				pC	
Source-Off Capacit.	$C_S(off)$	$f=100kHz$	$V_S=0V$, $V_I=5V$	5			pF	
Drain-Off Capacit.	$C_D(off)$		$V_D=0V$, $V_I=5V$	5				
Channel-On Capacitance	$C_D(on)$ $+C_S(on)$		$V_D=V_S=0V$, $V_I=0V$	16				
Off Isolation	OIRR		$V_S=2V_{P-P}$, $R_L=75\Omega$	70				dB
Channel-to-channel Crosstalk	CCRR			90				

MEMO

[CAUTION]

The specifications on this databook are only given for information, without any guarantee as regards either mistakes or omissions. The application circuits in this databook are described only to show representative usages of the product and not intended for the guarantee or permission of any right including the industrial rights.