

■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V _{CC1,2}	15	V
Input Voltage	V _{IN}	15	V
Power Dissipation	P _D	DIP8 700 DMP8 300	mW
Operating Temperature Range	T _{OPR}	-20 ~ +75	°C
Storage Temperature Range	T _{STG}	-40 ~ +125	°C

■ ELECTRICAL CHARACTERISTICS (V_{CC1}=5V, Ta=25°C)

PARAMETER	SYMBOL	TEST CONDITION									MIN.	TYP.	MAX.	UNIT
[INTERFACE]		INPUT CONDITION					CIRCUIT							
		OUT1	IN1	IN2	IN3	IN4	SW1	SW2	SW3					
Operating Supply Voltage ₁	V _{CC1}	—	—	—	—	—					4.75	5.0	5.25	V
Operating Current ₁	I _{CC1}	—	L	L	L	L					—	2	4	mA
Operating Current ₂	I _{CC2}	—	—	H	H	H	3	2	3		—	4.5	7	mA
IN2/3/4-V _{th}	IN2/3/4-V _{th}	—	—	—	—	—					2.0	2.5	3.0	V
IN1-V _{th} (note 1)	IN1-V _{th}	—		—	L	H					1.0	1.3	2.0	V
		—		—	H/L	L					1.0	1.3	2.0	V
		—		—	H	H						3.0	3.6	4.0
OUT1 (Low)	OUT1-L		H	—	—	—		2			0	—	1.5	V
OUT1 (High)	OUT1-H		*L	—	—	—		1			3.5	—	5.0	V
OUT1 (Hi-Imp)	OUT1-Hi-Imp		L	—	—	—		1			0	—	1.5	V
			L	—	—	—		2			3.5	—	5.0	V
OUT2 (Low)	OUT2-L	L	H	*L	—	—		2	1		0	—	1.5	V
		H	*L	*L	—	—		1	1					
		L/H	L	*L	—	—		1/2	1					
		H	*L	L	—	—		1	1					
		L	L	—	—		2	1						
OUT2 (Hsgt)	OUT2-H	L	H	H	—	—		2	2		3.5	—	5.0	V
		H	*L	H	—	—		1	2					
		L/H	L	H	—	—		1/2	2					
		L	H	L	—	—		2	2					
			L	L	—	—		1	2					

(note 1): The V_{th} of IN1 is changed by condition of IN3 and IN4.

*: For INHIBIT.

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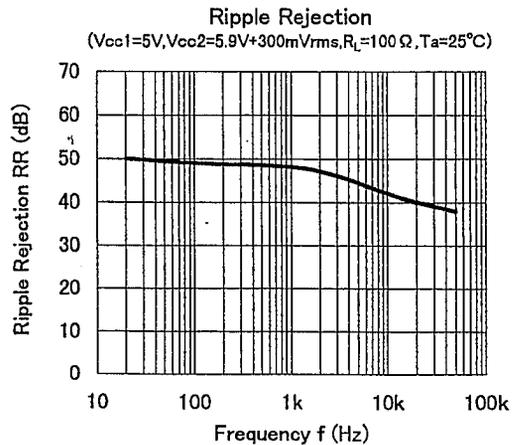
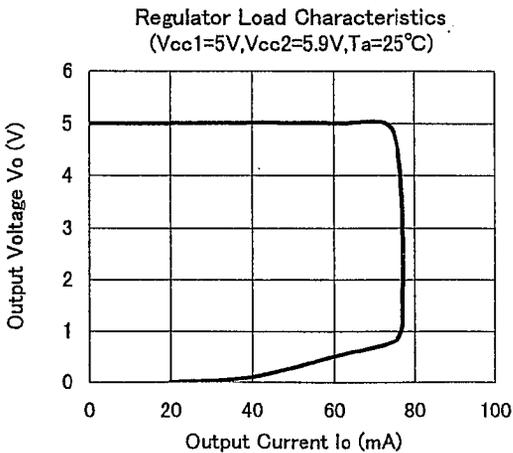
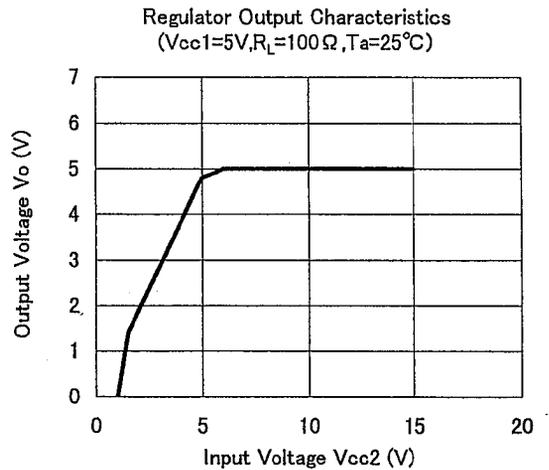
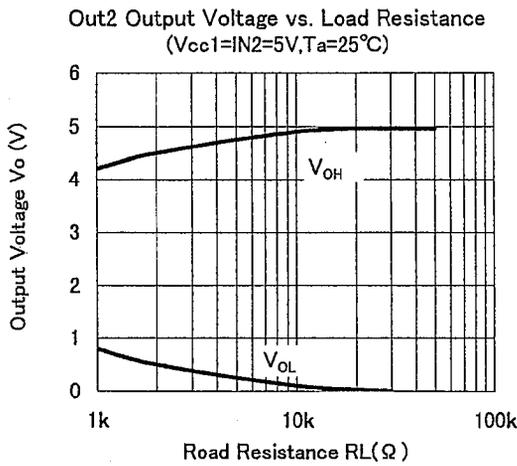
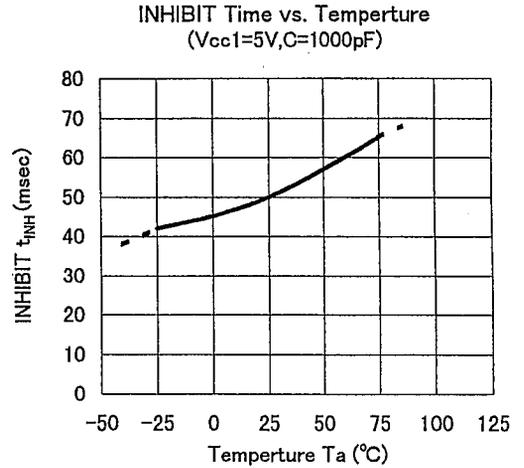
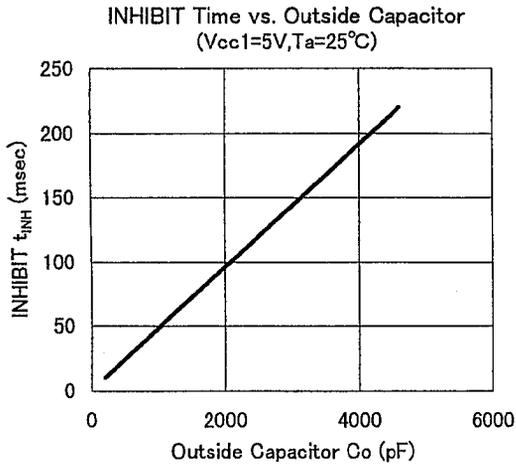
■ ELECTRICAL CHARACTERISTICS (Vcc1=5V, Ta=25°C)

PARAMETER	SYMBOL	TEST CONDITION							MIN.	TYP.	MAX.	UNIT	
【INTERFACE】		INPUT CONDITION				CIRCUIT							
		OUT1	IN1	IN2	IN3	IN4	SW1	SW2					SW3
IN1 Input Impedance	IN1-Rin	—		—	—	—	1			47	80	120	kΩ
IN1-OUT (Low)	IN1-Lout			—	L	H	2			2	2.5	3	V
				—	L	H	3			0	—	1.0	V
IN1-OUT (High)	IN1-Hout	—		—	H	H	2			3.5	—	5.0	V
		—		—	H	H	3			2	2.5	3	V
IN1-OPEN	IN1-Open	—		—	H	H	1			4.0	—	5.0	V
INHIBIT1 Time	INH1-time	—	*L	—	—	L				20	40	80	ms
INHIBIT2 Time	INH2-time	—	—	*L	—	—		1		20	40	80	ms
Slew Switch1 (IN1→OUT2)		Vcc1:OFF, IN1=3.5V							3	3.0	—	—	V
【POWER SUPPLY】 (note 3)													
Operating Power Supply2	Vcc2								5.75	5.9	12 (note4)	V	
Operating Current2	Icc2	Io=0mA							—	2	3	mA	
		Io=50mA							—	20	30	mA	
Output Voltage	Vout	Vcc2=5.9V, Io=60mA							4.5	5.0	5.3	V	
Line Regulation	ΔVo-Vcc2	Vcc2=5.75V~12V, Io=50mA							—	—	300	mA	
Load Regulation	ΔVo-Io	Vcc2=5.9V, Io=0~50mA							—	—	300	mA	
REG-SW (ON)	Reg-ON								3.0	—	5.0	V	
REG-SW (OFF)	Reg-OFF								0	—	2.0	V	

(note 3) The Vref in Power Supply block is the Vcc1, so that its specification is guaranteed at Vcc1=5V.

(note 4) The Supply voltage of Vcc2 must be chose less then power dissipation.

TYPICAL CHARACTERISTICS



NJM2129

MEMO

[CAUTION]

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