ADJUSTABLE DIVIDED VOLTAGE GENERATOR

GENERAL DESCRIPTION

The NJM2366 is an adjustable divided voltage generator for medium and large size LCD panels which are required five bias voltage.

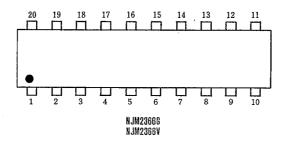
5 divided voltage are generated by internal bleeder resistor and are output through the buffer amplifier.

The minimum voltage ratio is selected from 1/13 to 1/19 of supply voltage.

FEATURES

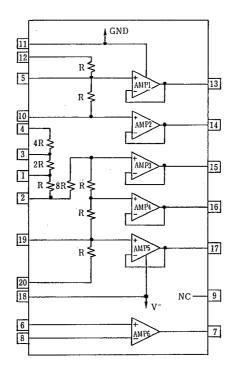
- $(-10V \sim -36V)$ Operating Voltage .
- Low Operating Current • (1.5mA max.)
- Output Current ٠ (±10mA min.)
- 5 Divided Voltage From Supply Voltage
- Internal an OP-AMP
- Bipolar Technology
- SOP20, SSOP20 Package Outline

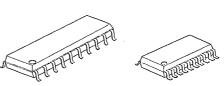
PIN CONFIGURATION



PIN	FUNCTION		
1.	RX3	11.	GND
2.	RX4	12.	Vin
3.	RX2	13.	٧I
	RX1	14.	V2
5.	Vin1	15.	V3
6.	Vin+	16.	V4
7.	Vout	17.	
8.	Vin	18.	v-
9.	NC	19.	Vin3
10.	Vin2	20.	Vref

BLOCK DIAGRAM





NJM2366G

PACKAGE OUTLINE

NJM2366V



NJM2366

ABSOLUTE MAXIMUM RATIN	NGS		(Ta=25°
PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V ⁻	-40	· V
Vin Voltage	Vin	-40	v
Output Current	lout	±15	mA
Power Dissipation(G/V type)	PD	300	mW
Operating Temperature	Topr	-40~+85	C
Storage Temperature Range(G/V type)	T _{stg}	-50~+125	°C

■ ELECTRICAL CHARACTERISTICS

 $(V^{-}=-16V, Ta=25^{\circ}C)$

Total Device						
PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNIT
Operating Current	I _{cc}	V ⁻ =Vref=-30V, 1/13Bias	-	-	1.5	mA
Resistance	R	IR=20 μA	15	20	25	ΚΩ
Internal Resistance Divided Ratio	Ral	R/R	0.98	1.00	1.02	
	Ra2	2R/R	1.96	2.00	2.04	1
	Ra3	4R/R	3.92	4.00	4.08	
	Ra4	8R/R	7.84	8.00	8.16	1

Buffers Block

PARAMETER	SYMBOL	CONDITIONS	MIN.	ΤΥΡ.	MAX.	UNIT
		V ⁻ =Vref				
Output Voltage Rating	RA1	GND-V1 / V1-V2	0.98	1.00	1.02	
		$-10V > V^- > -30V$				
	D 10	V3-V4 / V4-V5		1.00	1.02	
	· RA2	$-10V > V^{-} > -30V$	0.98			
Output Voltage Difference		$(A)+(B); V^{-}=Vref$				
	DV	(A) = GND - VI - VI - V2	-100	0	100	mV
		(B)= V4-V5 - V3-V4				
	ΔV1		-20	0	20	
	△V2		-20	0	20	1
	△V3	V ⁻ =Vref=-30V	-20	0	20	mV
Load Regulation	∆V4	−10mA≤Iout≤10mA	-20	0	20	- 111 V
	△V5		-20	0	20]
	△Vout		-20	0	20	1

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ELECTRICAL CHARACTERISTICS

$(V^{-}=-16V, Ta=25^{\circ}C)$

PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNIT
Output Current 1	I _{SOURSE} 1	-	+10	-	-	
	I SOURSE2		+10	-		
	I SOURSE3	$V^{-}=Vref=-30V$	+10	-	-]
	I _{sourse} 4	I/I3Bias	+10		-]
	I _{sourse} 5		+10	-	-	
	I _{SOURSE} 6		+10	-		mA
	I _{SINK} 1		-10	-	-]
	I _{sink} 2		-10	-	-	
Output Current 2	I _{SINK} 3	V ⁻ =Vref=-30V	-10	-	-	
Sulpar Current 2	I _{SINK} 4	1/13Bias	-10	-	-	
	I _{SINK} 5		-10	-		
	I sink6		-10		-	

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MEMO

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