OUAD OPERATIONAL AMPLIFIER

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GENERAL DESCRIPTION

查询NJM2060供应商

The NJM2060 integrated circuit is a high-gain, wide-bandwidth, quad operational amplifier capable of driving 20V peak-to-peak into 400 Ω loads. The NJM2060 combines many of the features of the NJM2058 as well as providing the capability of wider bandwidth, and higher slew rate make the NJM2060 ideal for active filters, data and telecommunications, and many instrumentation applications. The availability of the NJM2060 in the surface mounted micro-package allows the NJM2060 to be used in critical applications requiring very high packing densities. Each amplifier of the NJM2060 has the same electrical characteristic of the NJM4560.

FEATURES

- Operating Voltage
- Low Noise Voltage
- Slew Rate

JRC

- Unity Gain Bandwidth
- High Output Current
- Package Outline
- Bipolar Technology

PIN CONFIGURATION

 $(\pm 4V \sim \pm 18V)$ (RIAA 1.2 μ Vrms typ.) (4V/ μ s typ.) (10MHz typ.) (25mA) DIP14, DMP14, SSOP14⁺

PACKAGE OUTLINE



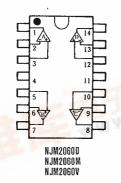
捷多邦,专业PCB打样工厂,24小时加 急出**弹JM2060**

NJM2060D



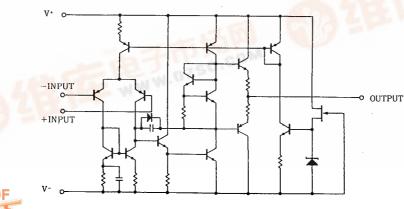
NJM2060M

NJM2060V



IN	FUNCITON		
1.	A OUTPUT	8.	C OUTPUT
	A-INPUT	9.	C-INPUT
3.	A+INPUT	10.	C+INPUT
4.	V+	11.	V-
5.	B+INPUT	12.	D+INPUT
6.	B-INPUT	13.	D-INPUT
7.	B.OUTPUT	14.	D OUTPUT

EQUIVALENT CIRCUIT (1/4 Shown)





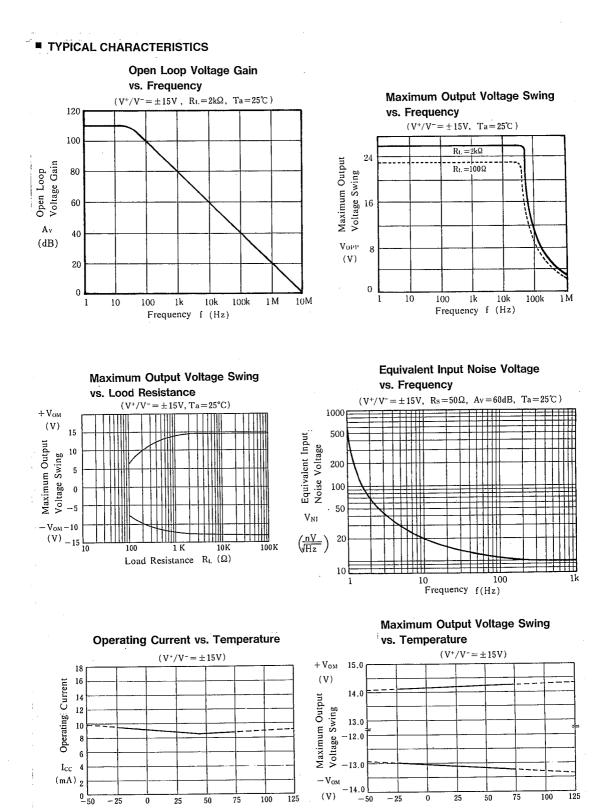
ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS		UNIT
Supply Voltage	V*/V-	±18	v	
Differential Input Voltage	Vid	±30		v
Input Voltage	V _{IC}	±15	(note 1)	v
	Ро	(DIP14) 700		mW
Power Dissipation		(DIM14) 700	(note 2)	mW
		(SSOP14) 300		mW
Operating Temperature Range	Topr	-20~+75		C
Storage Temperature Range	Tstg	-40~+125		Ĉ

(note 1) For supply voltage less than $\pm 15V$, the absolute maximum input voltage is equal to the supply voltage. (note 2) At on PC board

■ ELECTRICAL CHARACTERISTICS

ELECTRICAL CHARACTERIS	· · · · ·	(Ta =25℃,V ⁺ =15V, V ⁻ =−15V)				
PARAMETER SYMBOL TI		TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Input Offset Voltage	VIO	R _s ≦10kΩ		0.5	6	mV
Input Offset Current	I _{IO}		_	5	200	nA
Input Bias Current	l _B		-	.40	500	nA
Input Resistance	R _{IN}		100	500	_	kΩ
Large Signal Voltage Gain	Av	$R_L \ge 2k\Omega, V_O = \pm 10V$	86	100		dB
Maximum Output Voltage Swing 1	V _{OM1}	$R_{L} \ge 2k\Omega$	±12	±14	-	v
Maximum Output Voltage Swing 2	V _{OM2}	I _O =25mA	±10	±11.5	-	v
Input Common Mode Voltage Range	VICM		±12	±14	-	v
Common Mode Rejection Ratio	CMR	R _s ≦10kΩ	70	90	_	dB
Supply Voltage Rejection Ratio	SVR	R _s ≦10kΩ	. 76	90	_	dB
Operating Current	I _{cc}		_	• 9	14	mA
Slew Rate	SR		-	4	-	V/μs
Gain Bandwidth Product	GB		-	10	-	MHz
Equivalent Input Noise Voltage	V _{NI}	RIAA Rs = $2.2k\Omega$, $30kHz$ L.P.F.	-	1.2	- '	μVrms



Ambient Temperature Ta (°C)

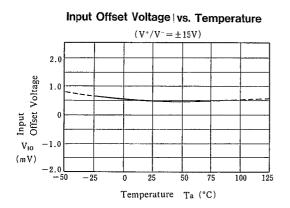
Ambient Temperature

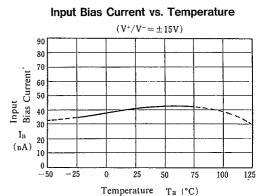
Ta (°C)

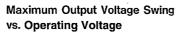
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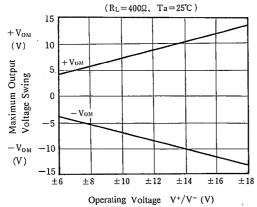
NJM2060

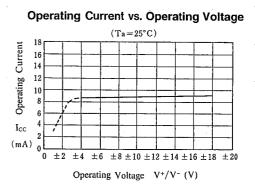
TYPICAL CHARACTERISTICS





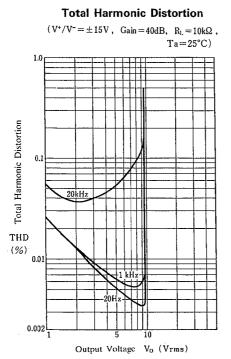


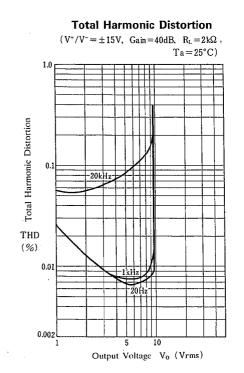




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TYPICAL CHARACTERISTICS





MEMO

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