Designated client product

This product will be discontinued its production in the near term. And it is provided for customers currently in use only, with a time limit. It can not be available for your new project. Please select other new or existing products.

For more information, please contact our sales office in your region.

New Japan Radio Co.,Ltd.

www.njr.com

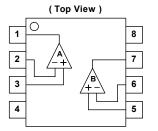
GENERAL DESCRIPTION

The NJM4560 integrated circuit is a high-gain, wide bandwidth, dual operational amplifier capable of driving 20V peak-to-peak into 400 Ω loads. The NJM4560 combines many of the features of the NJM4558 as well as providing the capability of wider bandwidth, and higher slew rate make the NJM4560 ideal for active filters, data and telecommunications, and many instrumentation applications. The availability of the NJM4560 to be used in critical applications requiring very high packing densities.

FEATURES

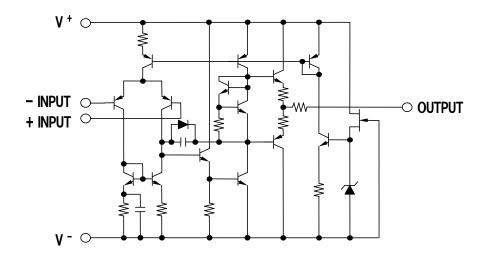
- Operating Voltage
- Wide Gain Bandwidth Product
- Slew Rate
- Package Outline
- Bipolar Technology

■ PIN CONFIGURATION



NJM4560D, NJM4560M, NJM4560E

■ EQUIVALENT CIRCUIT (1/2 Shown)



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PACKAGE OUTLINE



NJM4560D (DIP8) IMAEG

NJM4560M (DMP8)

NJM4560

AND

FUTUT

NJM4560E (SOP8) NJM4560L (SIP8)

PIN FUNCTION 1. A OUTPUT 2. A - INPUT 3. A +INPUT 4. V⁻ 5. B +INPUT 6. B - INPUT 7. B OUTPUT 8. V⁺

(±4V~±18V) duct (10MHz typ.) (4V/μs typ.)

DIP8, DMP8, SIP8, SOP8 JEDEC 150mil

NJM4560L

■ ABSOLUTE MAXIMUM RATINGS

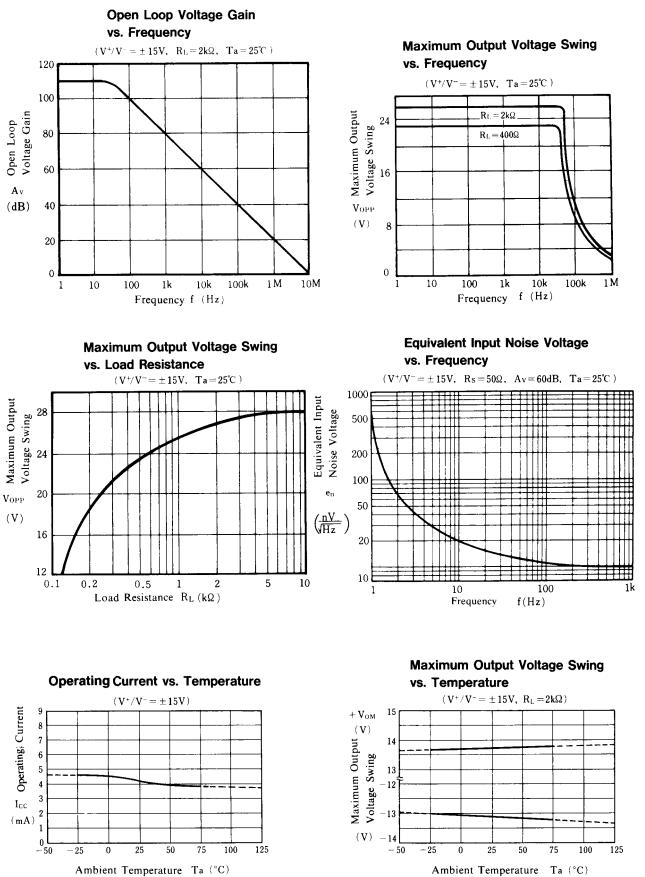
			(Ta=25°C)
PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V⁺/V	± 18	V
Differential Input Voltage	VID	± 30	V
Input Voltage	VIC	± 15 (note)	V
Power Dissipation	PD	(DIP8) 500 (DMP8) 300 (SOP8) 300 (SIP8) 800	mW
Operating Temperature Range	T _{opr}	-40~+85	°C
Storage Temperature Range	T _{stg}	-40~+125	С°

(note) For supply voltage less than ±15V, the absolute maximum input voltage is equal to the supply voltage.

■ ELECTRICAL CHARACTERISTICS

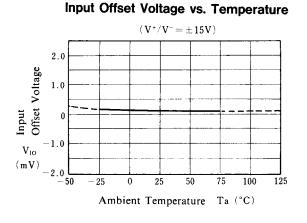
				(Ta=25°C,V⁺/V=±15			
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Input Offset Voltage	V _{IO}	Rs≤10kΩ	-	0.5	6	mV	
Input Offset Current	lio		-	5	200	nA	
Input Bias Current	I _B		-	40	500	nA	
Input Resistance	R _{IN}		0.3	5	-	MΩ	
Large Signal Voltage Gain	Av	R _L ≥2kΩ,V _O =±10V	86	100	-	dB	
Maximum Output Voltage Swing 1	V _{OM1}	R _L ≥2kΩ	± 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	76.5	90	-	dB	
Operating Current	I _{CC}		-	4.3	5.7	mA	
Slew Rate	SR		-	4	-	V/µs	
Gain Bandwidth Product	GB		-	10	-	MHz	
Equivalent Input Noise Voltage	V _{NI}	RIAA,Rs=2kΩ,30kHz LPF	-	1.2	-	μVrms	

■ TYPICAL CHARACTERISTICS

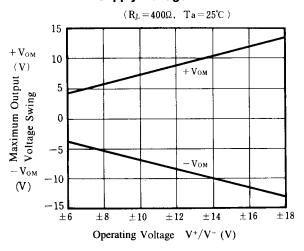


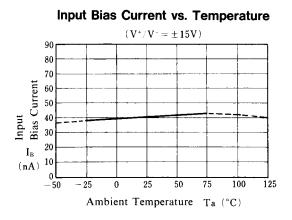
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TYPICAL CHARACTERISTICS

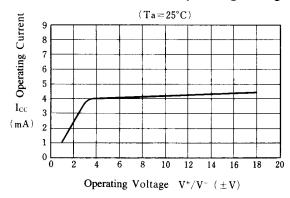


Maximum Output Voltage Swing vs. Supply Voltage





Operating Current vs. Operating Voltage



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