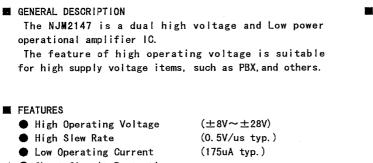
JRC



DIP8, DMP8

PIN FUNCTION 1. A OUTPUT 2. A -INPUT

3. A +INPUT

5. B +INPUT 6. B -INPUT

7. B OUTPUT
8. V⁺

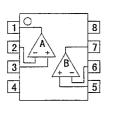
4. V⁻

Short-Circuit Protection

• Package Outline

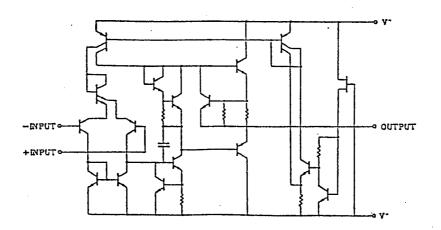
Bipolar Technology

PIN CONFIGURATION



NJM2147D NJM2147M

EQUIVALENT CIRCUIT



M PACKAGE OUTLINE





NJM2147D

NJM2147M

■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V ⁺ /V ⁻	±30	v
Input Voltage	Vic	±28 (note)	v
Differential Input Voltage	Vid	±30	v
Power Dissipation	PD	(D1P8) 500 (DMP8) 300	mW
Operating Temperature Range	Тарг	~40 ~ +85	°C
Storage Temperature Range	Tutg	-40 ~ +125	℃

(note) When supply voltage is less than $\pm 15V,$ the absolute maximum input voltage is equal supply voltage.

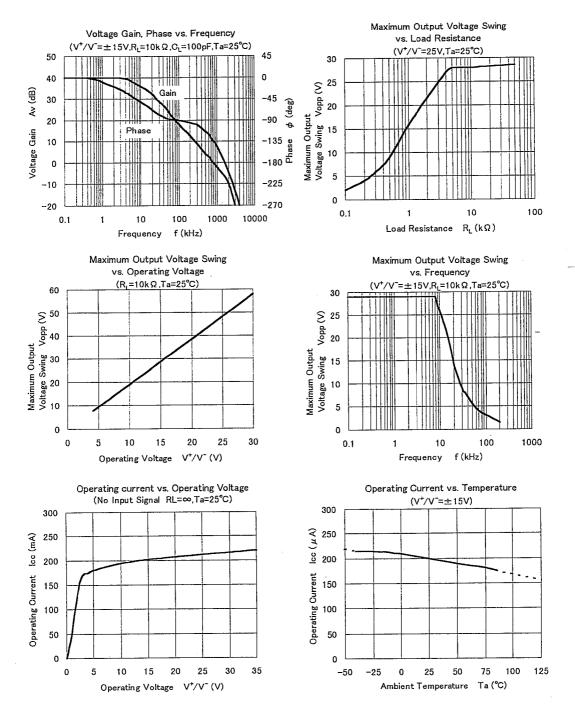
■ ELECTRICAL CHARACTERISTICS (V⁺/V⁻=±15V, Ta=25°C)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	ΤΥΡ.	MAX.	UNIT
Operating Voltage	۷+	· · · · ·	±8	±15	±28	v
Input Offset Voltage	Vio	Rs≦10kΩ	—	1.0	5.0	mV
Input Bias Current	Iв			15	250	nA
Input Offset Voltage	110		-	1	80	nA
Large Signal Voltage Gain	A∨	$R_{L} \ge 10 k \Omega$, $V_{0} = \pm 10 V$	60	88		dB
Input Common Mode	VICM		±12	±13		V
Voltage Range						
Common Mode	CMR	Rs≦10kΩ,V₁c=±12V	60	90		dB
Rejection Ratio						
Supply Voltage	SVR	$R_s \leq 10 k \Omega, V^+/V^-=\pm 14V \sim \pm 28V$	74	110	-	dB
Rejection Ratio						
Maximum Peak-to-peak	Vом1	R∟≧10kΩ	±10	±14	-	v
Output Voltage Swing 1			}			
Maximum Peak-to-peak	Vом2	$R_{\perp} \ge 50 k \Omega$	±13	±14	-	v
Output Voltage Swing 2						
Operating Current	lcc	R∟=∞ (All Circuit)	—	175	300	uA
Short-circuit	los		-	±6		mA
Output Current						
Slew Rate	SR	R _L =10kΩ, C _L =100pF, V _{3N} =10V		0.5	-	V/us
Response Time (Rise Time)	tR	R _L =10kΩ, C _L =100pF, V _{IN} =20mV		0.3	-	us
Equivalent Input	en	Av=20dB, f=1kHz		50		nV/∫Hz
Noise Voltage						

Δ

NJM2147

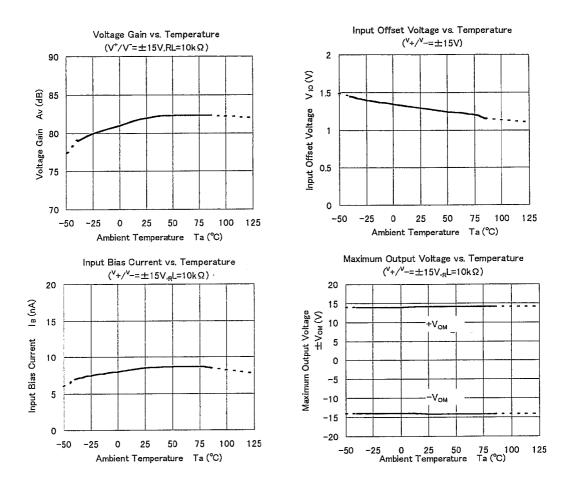
TYPICAL CHARACTERISTICS



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4-269

TYPICAL CHARACTERISTICS



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MEMO

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