

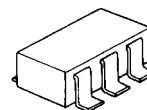
SINGLE COMPARATOR

■ GENERAL DESCRIPTION

The NJM2406 is a single comparator of ultra miniature surface mount package.

The NJM2406 is suitable for small electronic equipments and hybrid circuits.

■ PACKAGE OUTLINE



NJM2406F

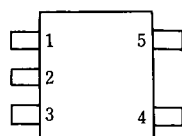


NNJM2406F3

■ FEATURES

- Operating Voltage (2.5V~7V)
- Single Supply Operation
- Mounted in Ultra Miniature Package 2.0x1.25mm (1/8 of DMP8 package)
- Ground Shield Plate between +Input and Output
- Ground Shield Plate between +Input and -Input
- Suitable Pin Arrangement for Application
- Package Outline MTP5,SC88A
- Bipolar Technology

■ PIN CONFIGURATION

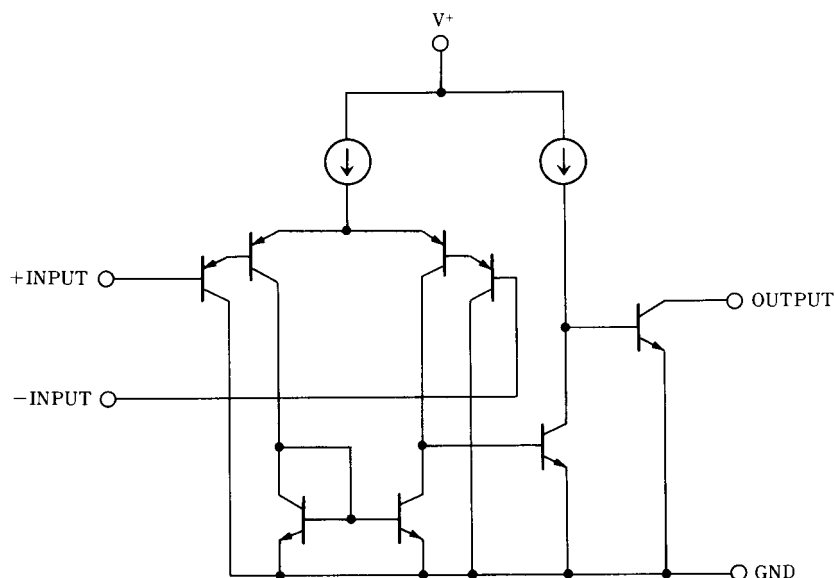


NJM2406F
NJM2406F3

PIN FUNCTION

1. -INPUT
2. GND
3. +INPUT
4. OUTPUT
5. V^+

■ EQUIVALENT CIRCUIT



NJM2406

■ ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V^+	7	V
Differential Input Voltage	V_{ID}	7	V
Input Voltage	V_{IN}	-0.3~7	V
Power Dissipation	P_D	(MTP5) 200 (SC88A) 250 (note1)	mW
Output to Negative Supply Voltage	V_{SUS}	20	V
Operating Temperature Range	T_{opr}	-40~+85	°C
Storage Temperature Range	T_{stg}	-40~+125	°C

(note1) On glass epoxy board. (50x50x1.6mm)

■ ELECTRICAL CHARACTERISTICS

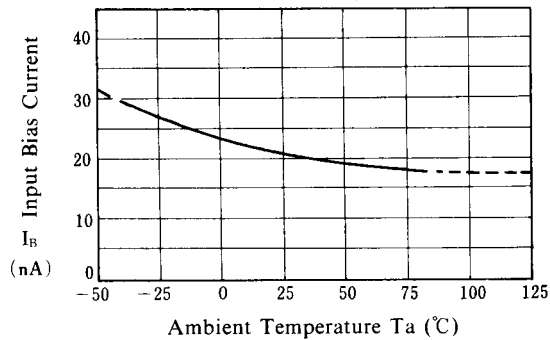
($V^+=5V, T_a=25^\circ C$)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Input Offset Voltage	V_{IO}	$R_S=0\Omega, V_O=1.4V$	-	1	7	mV
Input Offset Current	I_{IO}		-	1	50	nA
Input Bias Current	I_B		-	20	250	nA
Input Common Mode Voltage Range	V_{ICM}		0~3.5	-	-	V
Large Signal Voltage Gain	A_V	$R_L=15k\Omega$	-	106	-	dB
Response Time	t_R	$R_L=5.1k\Omega$	-	1.5	-	μs
Output Sink Current	I_{SINK}	$V_{IN^-}=1V, V_{IN^+}=0V, V_O=1.5V$	6	-	-	mA
Output Saturation Voltage	V_{SAT}	$V_{IN^-}=1V, V_{IN^+}=0V, I_{SINK}=5mA$	-	300	500	mV
Output Leakage Current	I_{LEAK}	$V_{IN^-}=0V, V_{IN^+}=1V, V_O=20V$	-	-	1	μA
Operating Current	I_{CC}		200	400	800	μA

■ TYPICAL CHARACTERISTICS

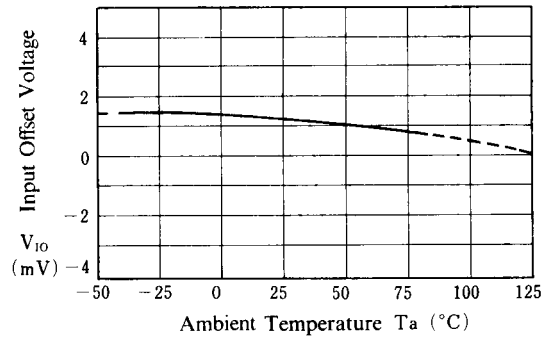
Input Bias Current vs. Temperature

($V^+ = 5\text{ V}$)



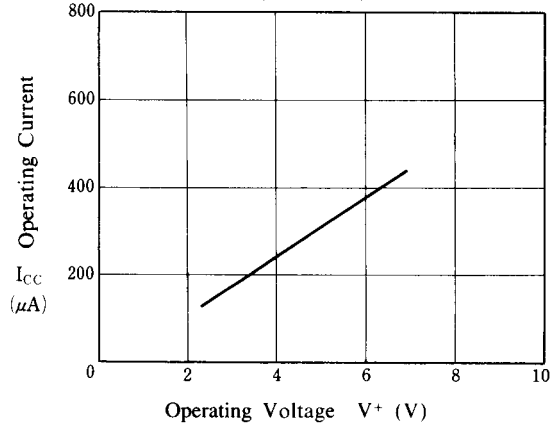
Input Offset Voltage vs. Temperature

($V^+ = 5\text{ V}$)



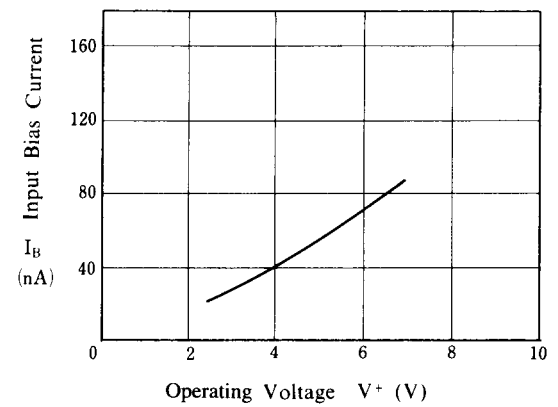
Operating Current vs. Operating Voltage

($T_a = 25^\circ\text{C}$)



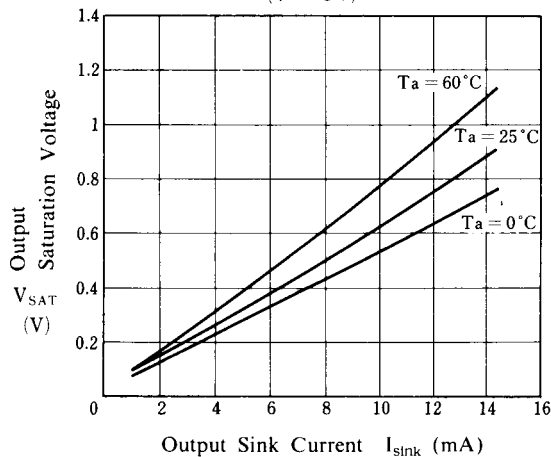
Input Bias Current vs. Operating Voltage

($T_a = 25^\circ\text{C}$)



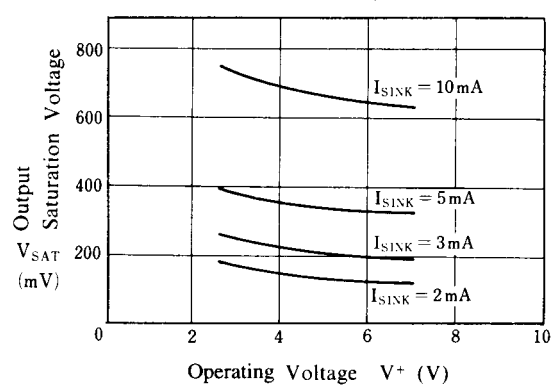
Output Saturation Voltage vs. Output Sink Current

($V^+ = 5\text{ V}$)

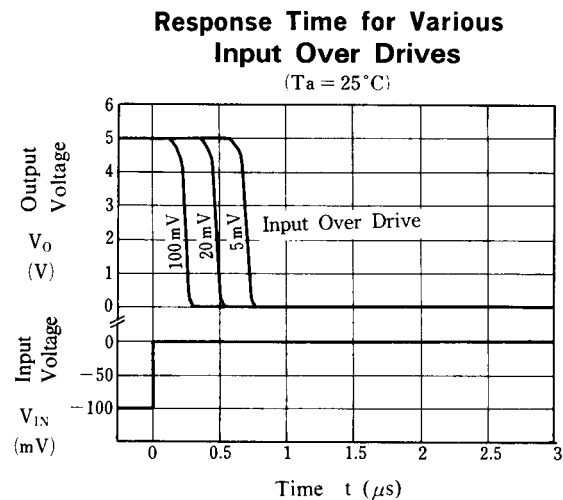
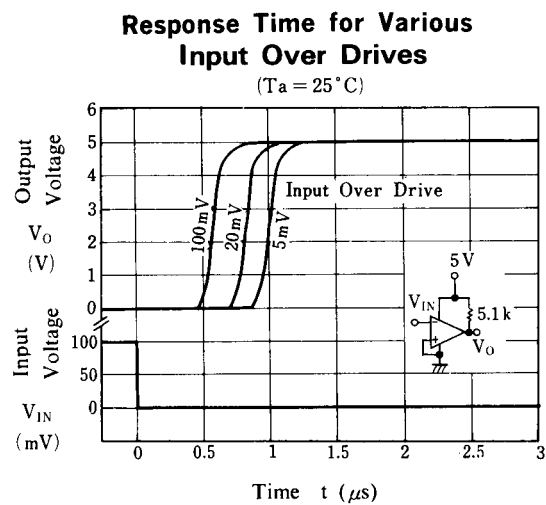


Output Saturation Voltage vs. Operating Voltage

($T_a = 25^\circ\text{C}$)



■ TYPICAL CHARACTERISTICS



[CAUTION]
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AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com