■ ABSOLUTE MAXIMUM RATINGS

(Ta=25℃)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V^+	8	V
Power Dissipation	P_D	(DIP8) 500 (DMP8) 300	mW
Operating Temperature Range	T_{opr}	−40～+85	℃
Storage Temperature Range	T_{stg}	−40～+125	℃
Maximum Input Voltage	V_{imax}	V^+−1	V

■ ELECTRICAL CHARACTERISTICS

(Ta=25℃, V^+=3V)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Operating Voltage	V^+		0.9	—	7	V
Operating Current	I_{cc}	V_{IN}=0mVrms, R_L=∞	0.2	0.55	1.5	mA
Input Sensitivity	V_{ins}	f=1kHz	−39	−36	−33	dBV
Attack Time (note 1)	T_{atc}	C_R=10μF, f=1kHz	—	1	25	mSec
Recovery Time (note 2)	T_{rec}	C_R=10μF, f=1kHz	—	2	—	Sec
Output Current at ON(OUT 1)	$I_{O1\ on}$	V_{in}=30mVrms, V_o=0.3V	1	3	—	mA
Output Current at ON(OUT 2)	$I_{O2\ on}$	V_{in}=0mVrms, V_o=0.3V	1	3	—	mA
Output Current at OFF(OUT1)	$I_{O1\ off}$	V_{in}=0mVrms, V_o=8V	—	—	1	μA
Output Current at OFF(OUT2)	$I_{O2\ off}$	V_{in}=30mVrms, V_o=8V	—	—	1	μA
Input Resistance	R_{in}		16	20	24	kΩ
Charge Current	I_{chg}		1.0	2.0	3.0	μA

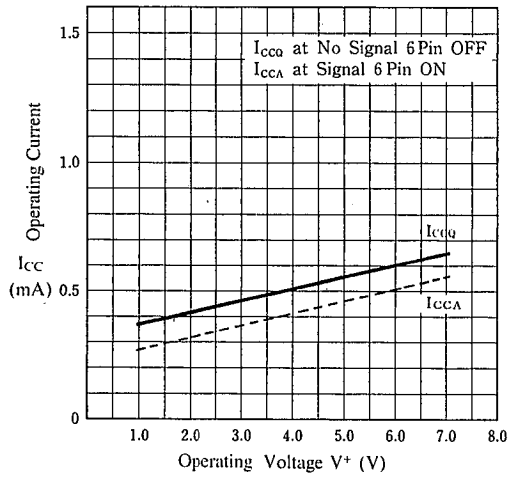
(note 1) Attack Time: Period from putting input signal of more than minimum input sensitive signal to output level change.
(note 2) Recovery Time: Period from input signal becoming lower than minimum input sensitine signal to output level change.

5

■ TYPICAL CHARACTERISTICS

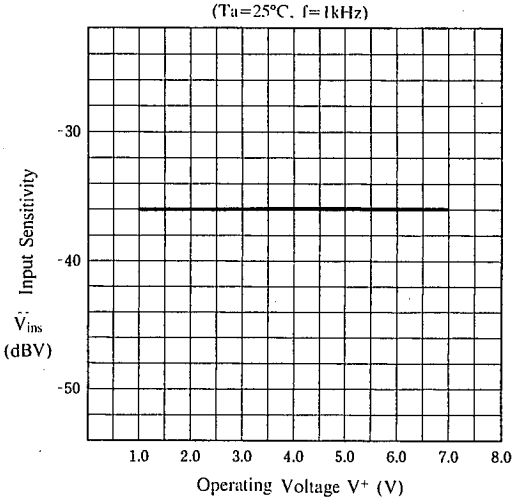
Operating Current vs. Operating Voltage

(Ta=25°C)



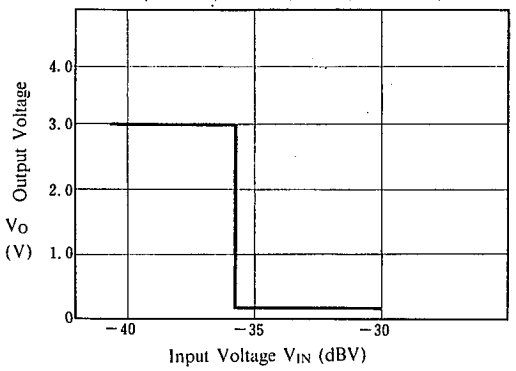
Input Sensitivity vs. Operating Voltage

(Ta=25°C, f=1kHz)

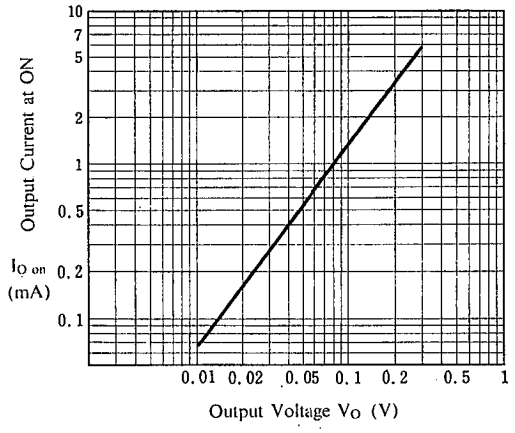


Output Voltage vs. Input Voltage

(V+=3V, f=1kHz, 6 Pin, Ta=25°C)

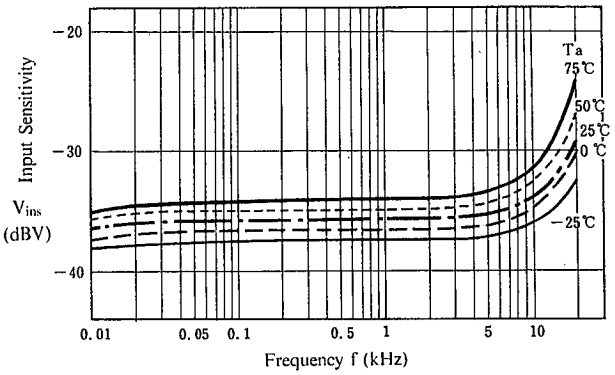


Output Current at ON vs. Output Voltage



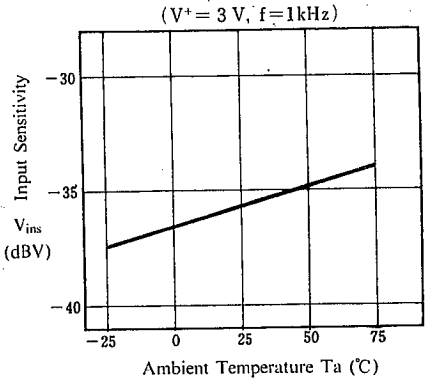
Input Sensitivity vs. Frequency

(V+= 3 V)



Input Sensitivity vs. Ambient Temperature

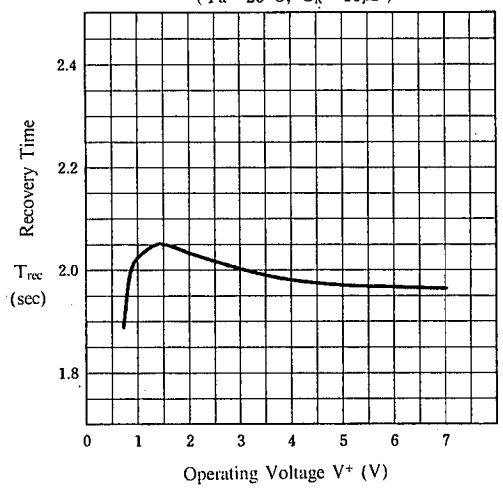
(V+= 3 V, f=1kHz)



■ TYPICAL CHARACTERISTICS

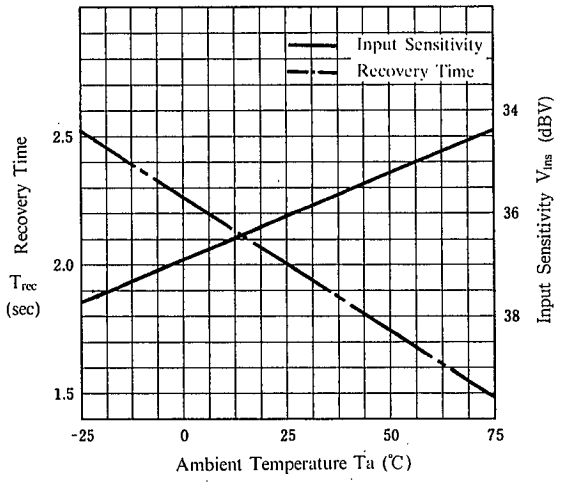
Recovery Time vs. Operating Voltage

(Ta=25°C, C_R=10μF)



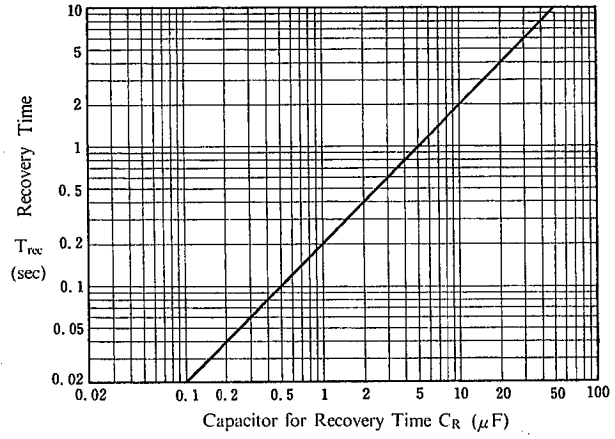
Input Sensitivity Recovery Time vs. Amvient Temperature

(V^+=3V, C_R=10μF)



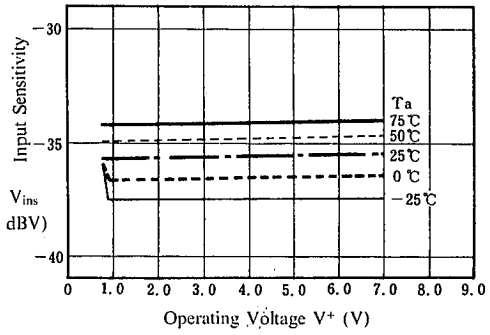
Recovery Time Characteristics

(f=1kHz)



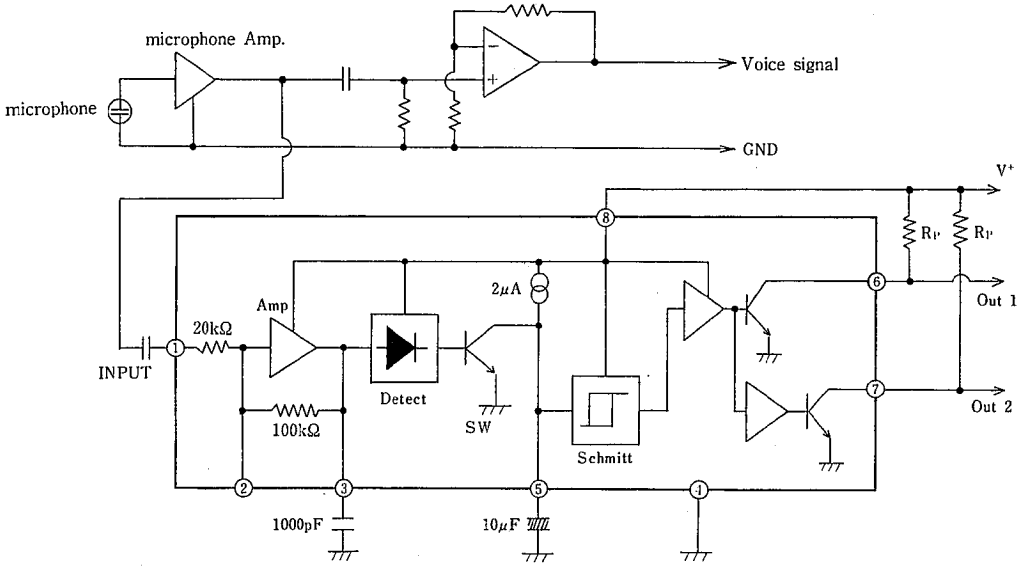
Input Sensitivity vs. Operating Voltage

(f=1kHz)



5

■ TYPICAL APPLICATIONS

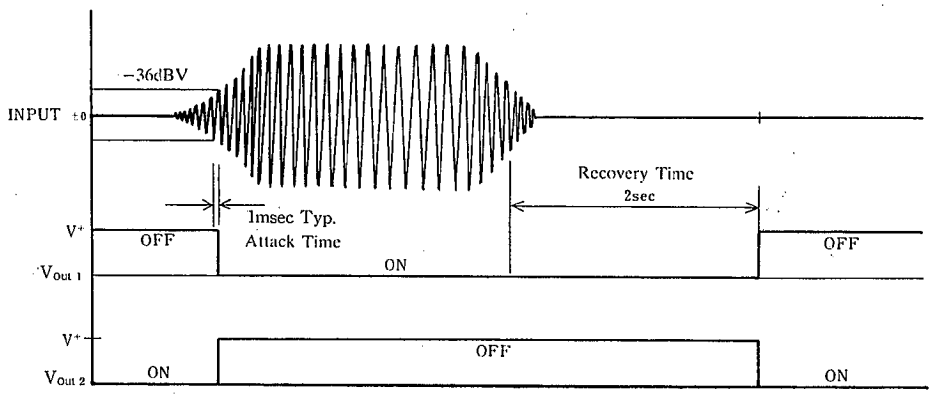


Pins 6 and 7 show an open collector. Mount resistor R_p shown by the following equation.

$R_P=(V^+_{MIN}-0.2)/0.3$ (kΩ)

Resistor R_P to pin 7 is omissible, if pin 6 only is used. But resistor R_P to pin 6 should be put when Out 2 only is used.

V^+_{MIN} is minimum supply voltage.



MEMO

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

NJR:

NJM2072M-TE1 NJM2072M-TE2 NJM2072M-TE3 NJM2072E NJM2072M NJM2072D NJM2072M-T1 NJM2072M-T2