

■ ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

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	°C
Storage Temperature Range	T _{stg}	-40 ~ +125	°C
Maximum Input Voltage	V _{imax}	V* - 1	V

■ ELECTRICAL CHARACTERISTICS

(Ta=25°C, V*=3V)

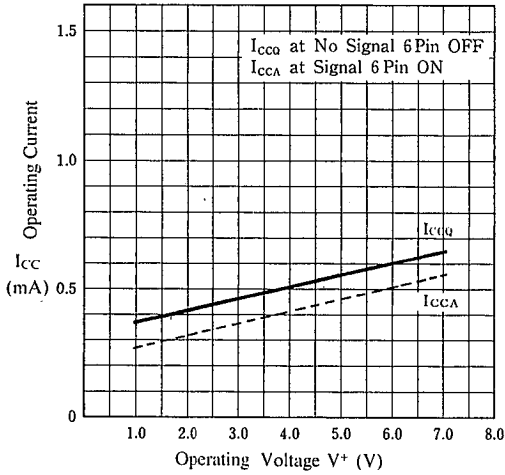
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Operating Voltage	V'		0.9	—	7	V
Operating Current	I _{cc}	V _{IN} =0mVrms, R _L =∞	0.2	0.55	1.5	mA
Input Sensitivity	V _{ins}	f=1kHz	-39	-36	-33	dBV
Attack Time (note 1)	T _{ate}	C _R =10μF, f=1kHz	—	1	25	mSec
Recovery Time (note 2)	T _{rec}	C _R =10μF, 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.

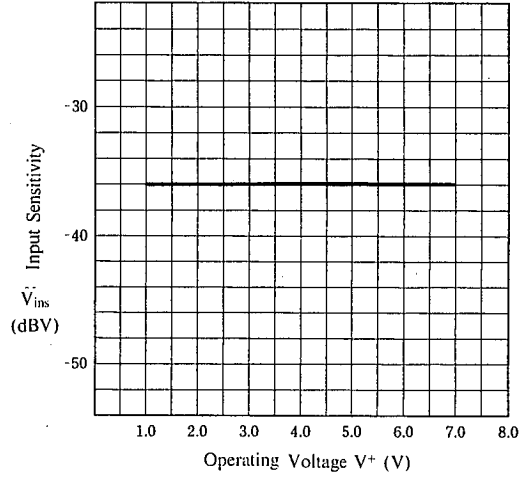
(note 2) Recovery Time: Period from input signal becoming lower than minimum input sensitive signal to output level change.

■ TYPICAL CHARACTERISTICS

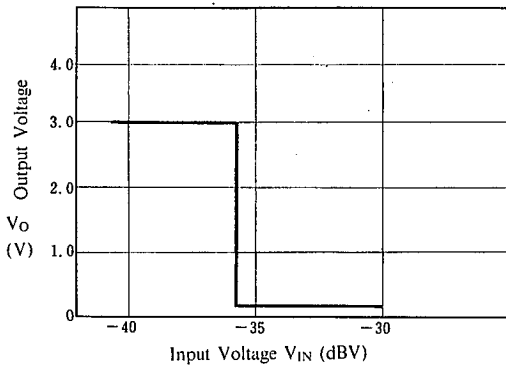
Operating Current vs. Operating Voltage
($T_a=25^\circ\text{C}$)



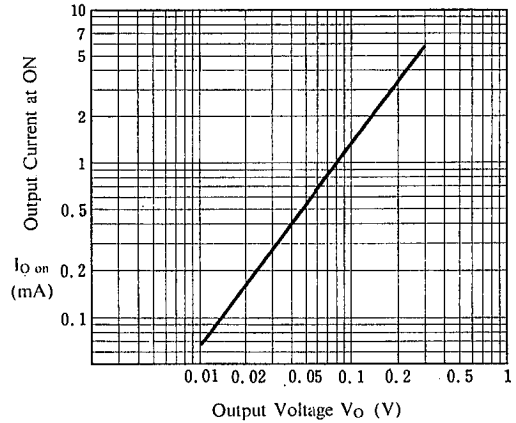
Input Sensitivity vs. Operating Voltage
($T_a=25^\circ\text{C}$, $f=1\text{kHz}$)



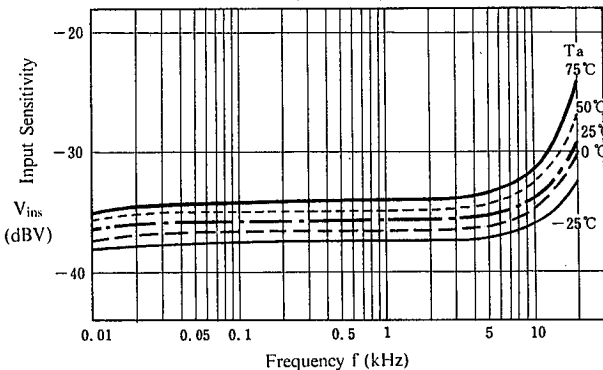
Output Voltage vs. Input Voltage
($V^+=3\text{V}$, $f=1\text{kHz}$, 6 Pin, $T_a=25^\circ\text{C}$)



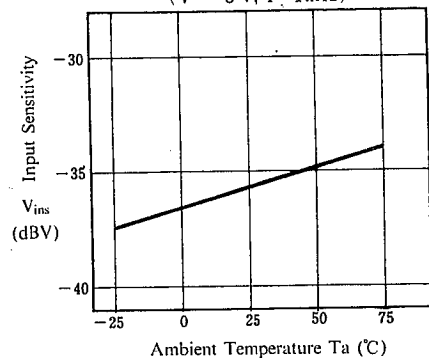
Output Current at ON vs. Output Voltage



Input Sensitivity vs. Frequency
($V^+=3\text{V}$)



Input Sensitivity vs. Ambient Temperature
($V^+=3\text{V}$, $f=1\text{kHz}$)

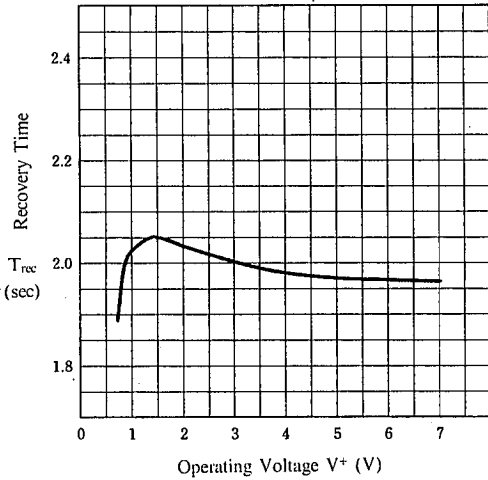


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■ TYPICAL CHARACTERISTICS

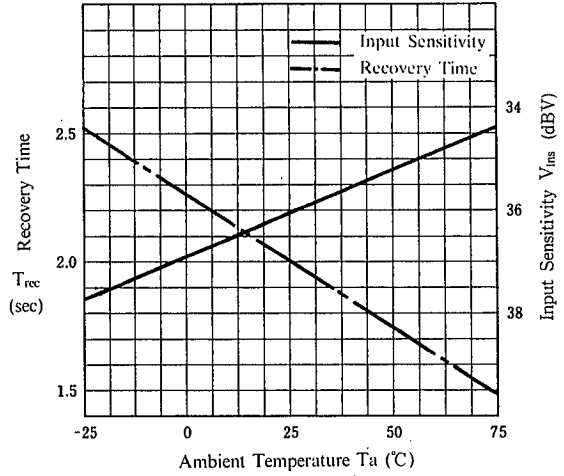
Recovery Time vs. Operating Voltage

($T_a = 25^\circ\text{C}$, $C_R = 10\mu\text{F}$)



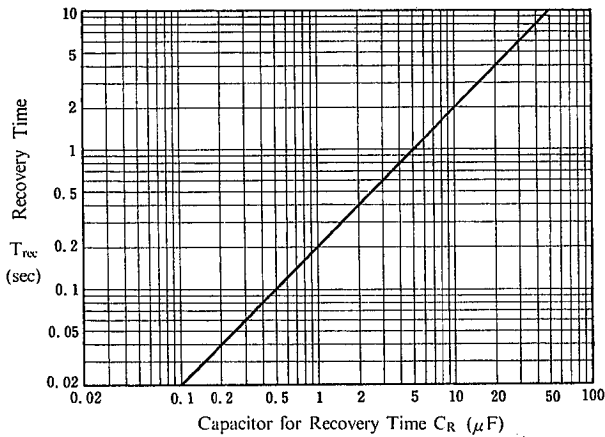
Input Sensitivity Recovery Time vs. Ambient Temperature

($V^+ = 3\text{V}$, $C_R = 10\mu\text{F}$)



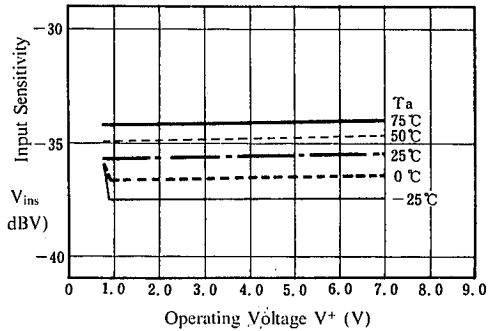
Recovery Time Characteristics

($f = 1\text{kHz}$)



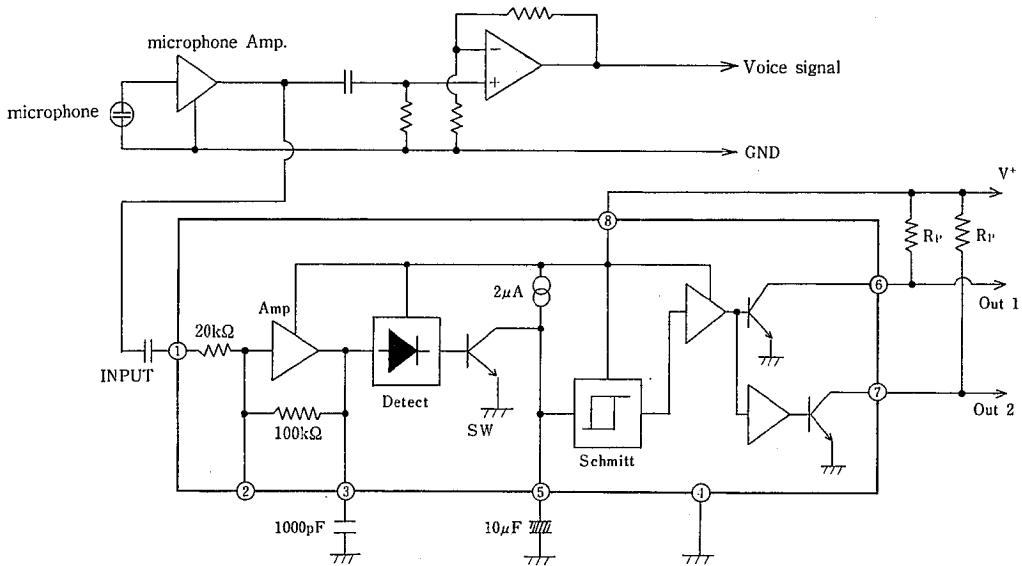
Input Sensitivity vs. Operating Voltage

($f = 1\text{kHz}$)



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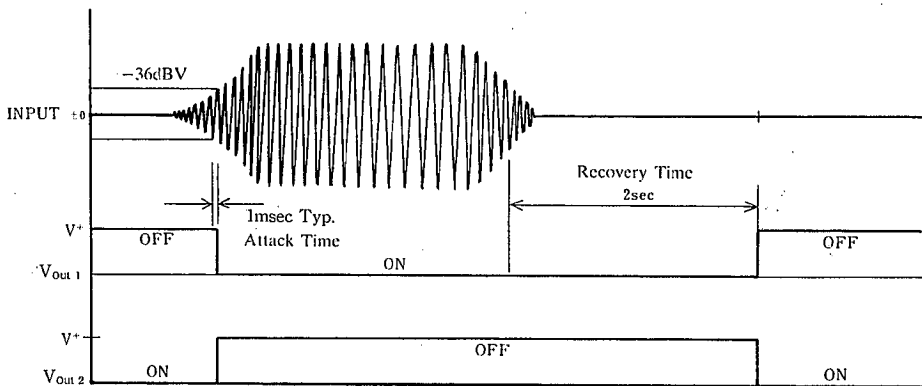
TYPICAL APPLICATIONS



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

$$R_p = (V^+_{MIN} - 0.2) / 0.3 \text{ (k}\Omega\text{)}$$

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

[CAUTION]

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