

SANYO

No.911C

LA6458D,6458S

Monolithic Linear IC

**High-Performance
Dual Operational Amplifiers**

The LA6458 consists of two independent, internally phase compensated operational amplifiers. Application areas include active filters, audio preamplifiers, and various electronic circuits.

Features

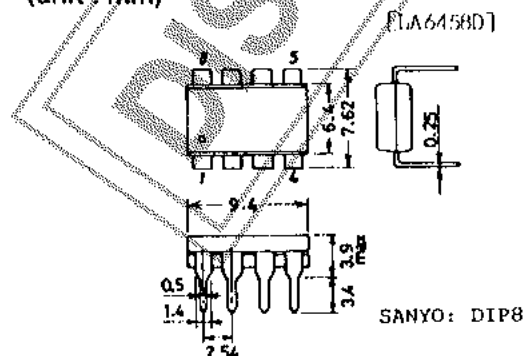
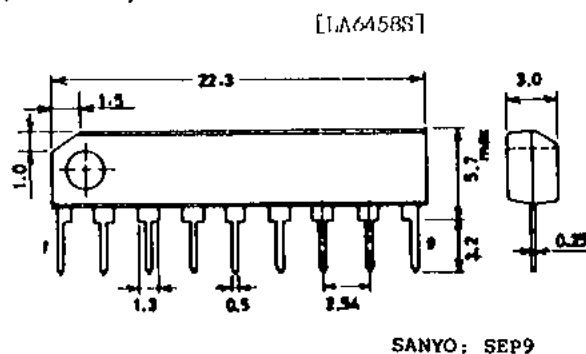
- LA6458D : 8-pin DIP, LA6458S : 9-pin SEP
- On-chip phase compensation circuit.
- High gain, low noise.
- Slew rate : 1.1V/ μ s typ.

Maximum Ratings at $T_a=25^\circ\text{C}$

Supply Voltage	V_{CC}/V_{EE}	± 18	V
Differential Input Voltage	V_{ID}	± 30	V
Common-Mode Input Voltage	V_{IN}	± 15	V
Allowable Power Dissipation	P_{dmax}	LA6458D LA6458S	500 500 mW
Operating Temperature	T_{opr}	-20 to +75	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to +125	$^\circ\text{C}$

Operating Characteristics at $T_a=25^\circ\text{C}$, $V_{CC}=15\text{V}$, $V_{EE}=-15\text{V}$

		min	typ	max	unit
Input Offset Voltage	V_{IO} $R_S \leq 10\text{k}\Omega$		0.5	6	mV
Input Offset Current	I_{IO}		5	200	nA
Input Bias Current	I_B		60	500	nA
Common-Mode Input Voltage	V_{ICM}	± 12	± 14		V
Common-Mode Rejection Ratio	CMR	70	90		dB
Voltage Gain	V_{GO} $R_L \geq 2\text{k}\Omega$, $V_O = \pm 10\text{V}$	86	100		dB
Maximum Output Voltage	V_O $R_L \leq 10\text{k}\Omega$	± 12	± 14		V
	$R_L \geq 2\text{k}\Omega$	± 10	± 13		V
Slew Rate	SR $V_G=0$, $R_L \geq 2\text{k}\Omega$		1.1		V/ μ s
Equivalent Input Noise Voltage	V_{NI} $R_S=1\text{k}\Omega$, B. P. $F=10\text{Hz}$ to 30kHz		1.7		μ V
Current Dissipation	I_{CO}		3.5	6	mA
Supply Voltage Rejection	ΔV_R $R_S \leq 10\text{k}\Omega$		30	150	μ V/V

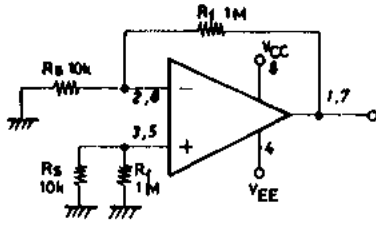
**Package Dimensions 3001B-DBIC
(unit : mm)****Package Dimensions 3017B-S9IC
(unit : mm)**

SANYO Electric Co., Ltd. Semiconductor Business Headquarters
TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN

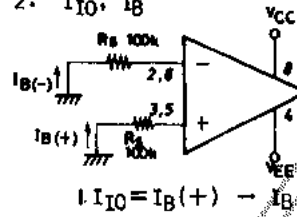
1100YT/8237KI/8064KI/O064KI, TS №911-1/4

Test Circuits (Pin assignment: DIP)

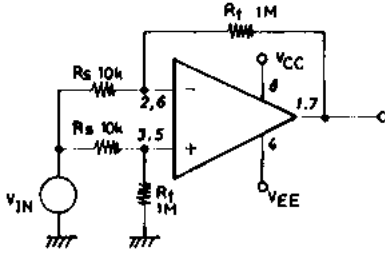
1. V_{IO} , SVR



2. I_{IO} , I_B

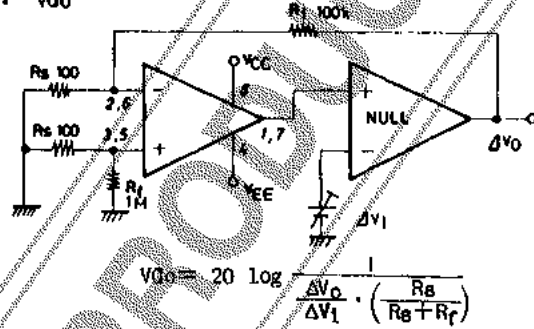


3. V_{ICM} , CMR

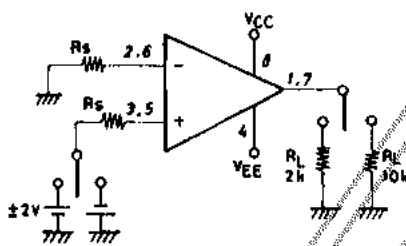


$$CMR = 20 \log \frac{V_{G \text{ diff}}}{V_{G \text{ cm}}}$$

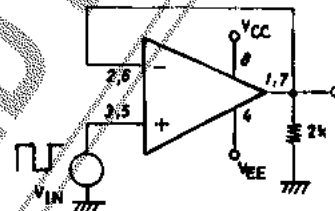
4. V_{GO}



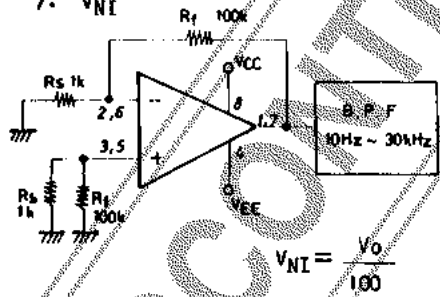
5. V_O



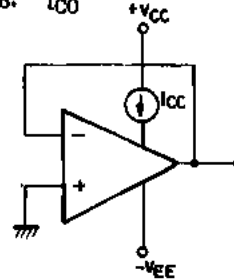
6. SR



7. V_{NI}



8. I_{CO}



Unit (resistance: Ω)

