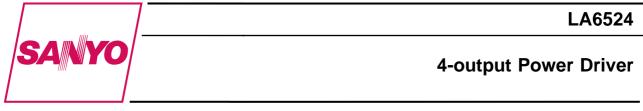
Monolithic Linear IC



### Overview

The LA6524 is a 4-output power driver developed for use in consumer and industrial equipment.

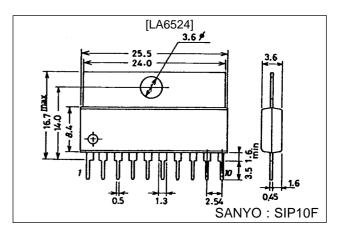
## Functions

- Four buffer amp circuits on chip
- High output current (Io max = 0.5 A)
- Includes current limiter
- Broad operating voltage range ( $\pm 2$  to  $\pm 12$  V)
- Single power supply operation possible (4 to 24 V)
- Thermal shutdown circuit built-in.

## **Package Dimensions**

unit : mm

#### 3046B-SIP10F



## **Specifications**

#### Maximum Ratings at Ta = 25 $^{\circ}C$

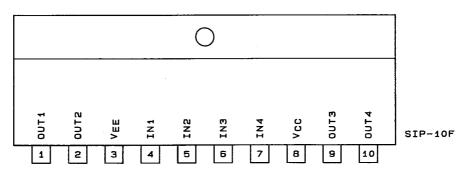
Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V <sub>CC</sub> /V <sub>EE</sub>		±15	V
Input voltage	V <sub>IN</sub>		±14	V
Allowable power dissipation	Pd max	When using AI heat sink ( 50 x 50 x 1.5 mm <sup>3</sup> )	2.0	W
Operating temperature	Topr		-20 to +75	۰C
Storage temperature	Tstg		-40 to +125	°C

#### Operating Characteristics at Ta = 25 °C, $V_{CC}/V_{EE}$ = ±10 V

Parameter	Symbol	Conditions	min	typ	max	Unit
Current drain with no load	Icc			10	30	mA
Input offset voltage	V <sub>IO</sub>	$R_{S} \leq 10 \text{ k}\Omega$		2	7	mV
Input bias current	IB			50	500	nA
Input voltage range	V <sub>ID</sub>		-9		+8	V
Maximum output voltage	Vo	R <sub>L</sub> = 33 Ω		±8		V
Slew rate	SR	$ \begin{array}{l} R_{L} = 33 \; \Omega \; , \; R1 = 2.2 \; \Omega \; , \\ C1 = 0.1 \; \muF \end{array} $		0.15		V/µs
Limiter current (built-in type)	I <sub>SC</sub>			0.5		A

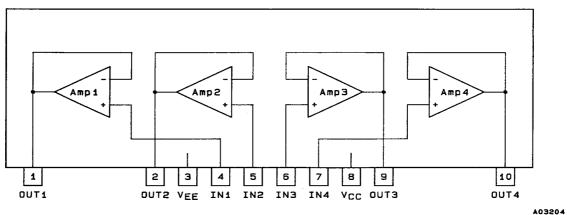
SANYO Electric Co., Ltd. Semiconductor Bussiness Headquarters TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN

# **Pin Assignments**

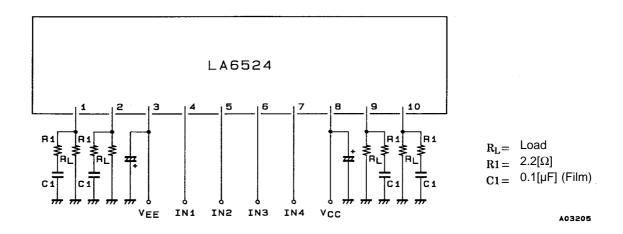


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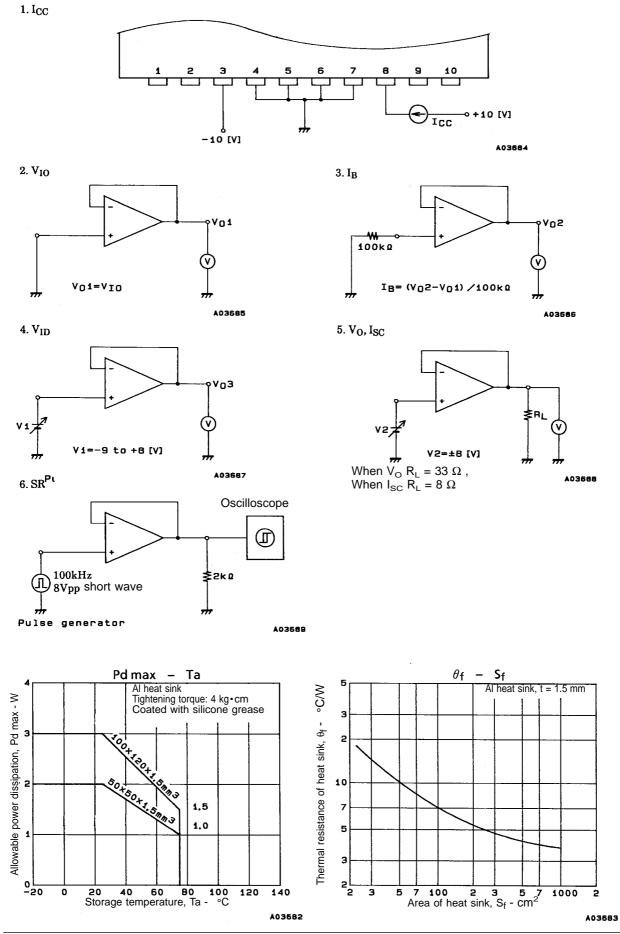
## **Block Diagram**



# **Sample Application Circuit**



## **Test Circuit**



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