

**LA6524****4-output Power Driver****Overview**

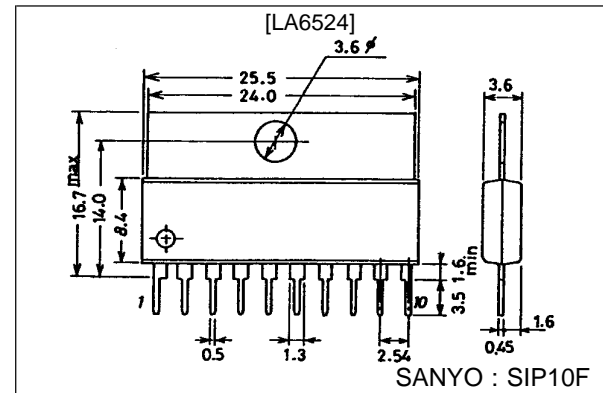
The LA6524 is a 4-output power driver developed for use in consumer and industrial equipment.

Functions

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

Package Dimensions

unit : mm

3046B-SIP10F**Specifications****Maximum Ratings at $T_a = 25\ ^\circ C$**

| Parameter | Symbol | Conditions | Ratings | Unit |
|-----------------------------|-----------------|---|-----------------|------------|
| Maximum supply voltage | V_{CC}/V_{EE} | | ± 15 | V |
| Input voltage | V_{IN} | | ± 14 | V |
| Allowable power dissipation | $P_{d\ max}$ | When using Al heat sink ($50 \times 50 \times 1.5\ mm^3$) | 2.0 | W |
| Operating temperature | T_{opr} | | -20 to $+75$ | $^\circ C$ |
| Storage temperature | T_{stg} | | -40 to $+125$ | $^\circ C$ |

Operating Characteristics at $T_a = 25\ ^\circ C$, $V_{CC}/V_{EE} = \pm 10\ V$

| Parameter | Symbol | Conditions | min | typ | max | Unit |
|---------------------------------|----------|--|------|---------|------|------------|
| Current drain with no load | I_{CC} | | | 10 | 30 | mA |
| Input offset voltage | V_{IO} | $R_S \leq 10\ k\Omega$ | | 2 | 7 | mV |
| Input bias current | I_B | | | 50 | 500 | nA |
| Input voltage range | V_{ID} | | -9 | | $+8$ | V |
| Maximum output voltage | V_O | $R_L = 33\ \Omega$ | | ± 8 | | V |
| Slew rate | SR | $R_L = 33\ \Omega$, $R_1 = 2.2\ \Omega$, $C_1 = 0.1\ \mu F$ | | 0.15 | | V/ μs |
| Limiter current (built-in type) | I_{SC} | | | 0.5 | | A |

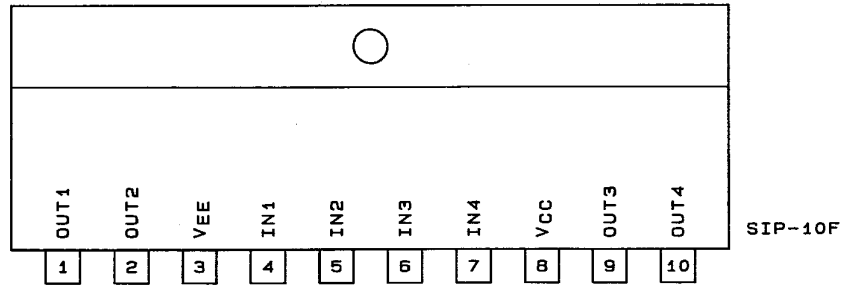
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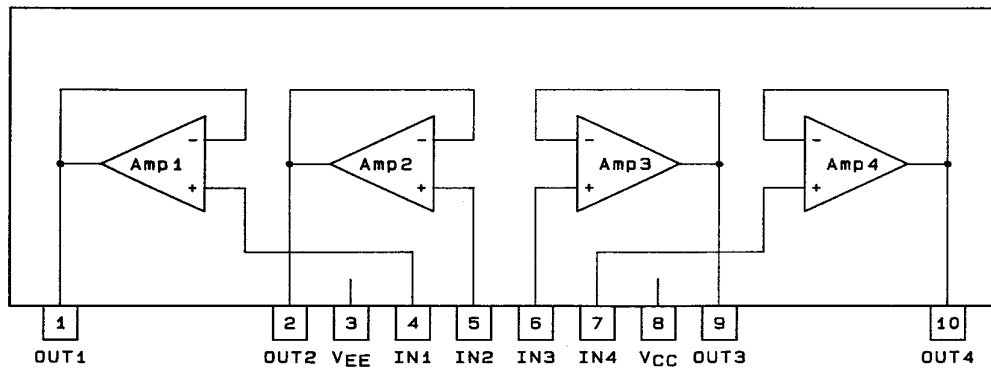
LA6524

Pin Assignments



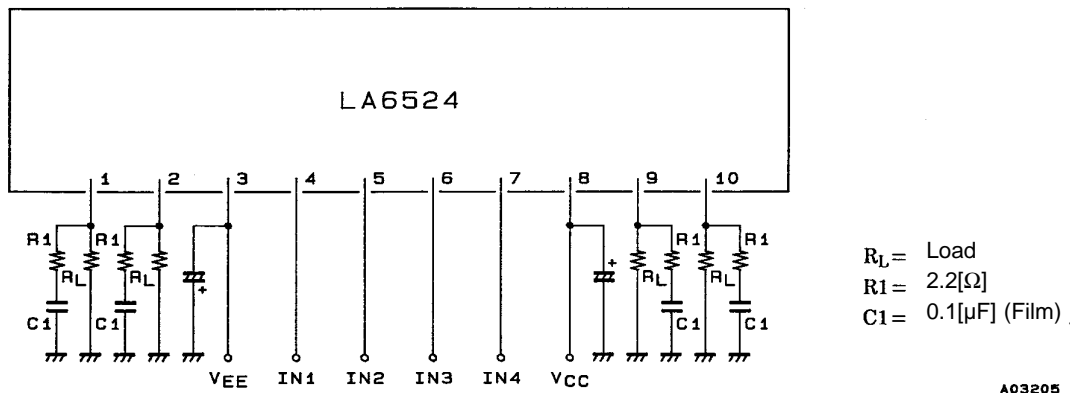
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Block Diagram



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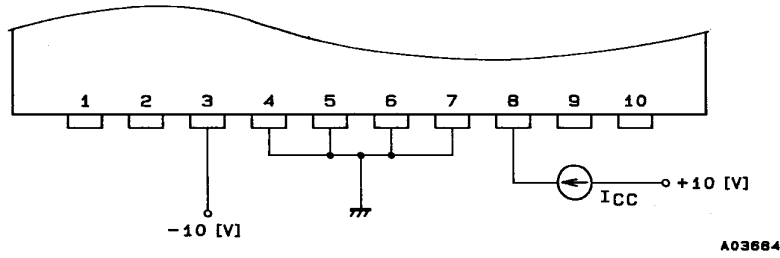
Sample Application Circuit



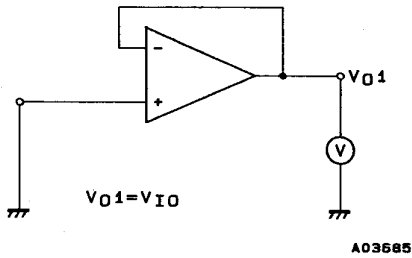
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Test Circuit

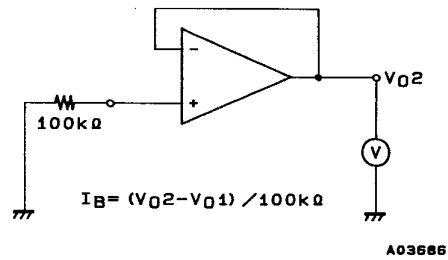
1. I_{CC}



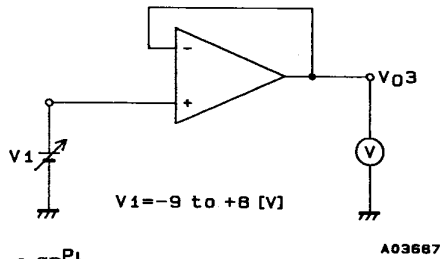
2. V_{IO}



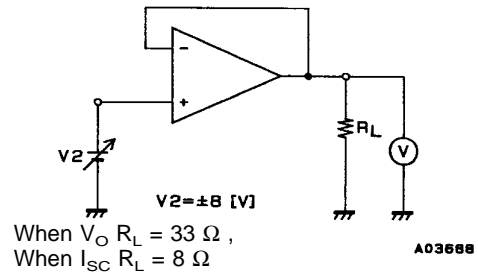
3. I_B



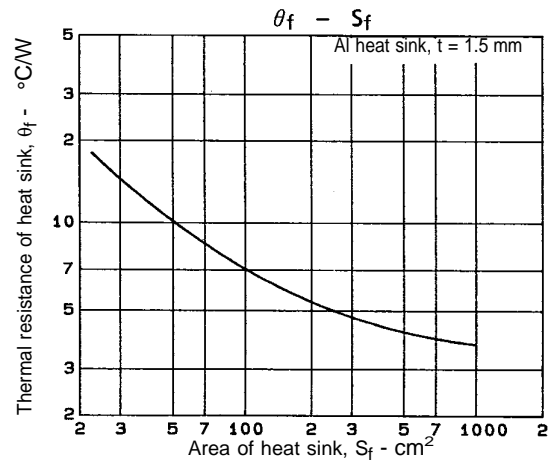
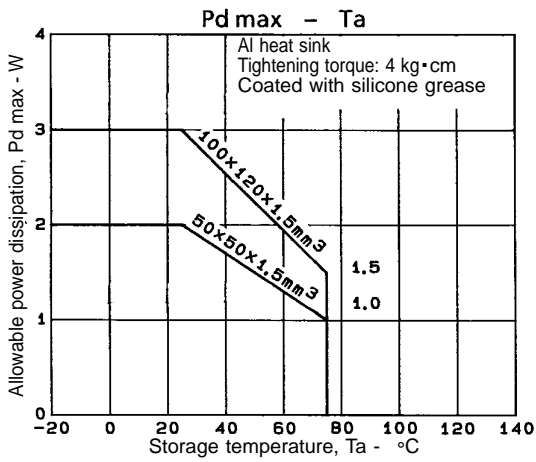
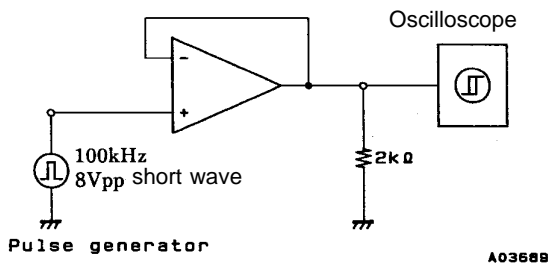
4. V_{ID}



5. V_O, I_{SC}



6. SR^{Pt}



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