Monolithic Linear IC



LA6524

4-output Power Driver

Overview

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

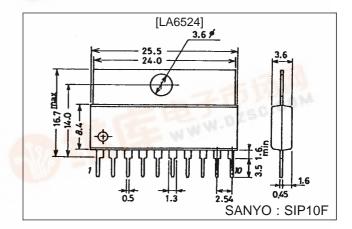
Functions

- Four buffer amp circuits on chip
- High output current (Io 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

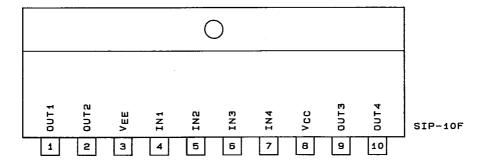
Maximum Ratings at Ta = 25 °C

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V _{CC} /V _{EE}	COM	±15	V
Input voltage	V _{IN}		±14	V
Allowable power dissipation	Pd max	When using Al heat sink (50 x 50 x 1.5 mm ³)	2.0	W
Operating temperature	Topr		-20 to +75	∘C
Storage temperature	Tstg		-40 to +125	∘C

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

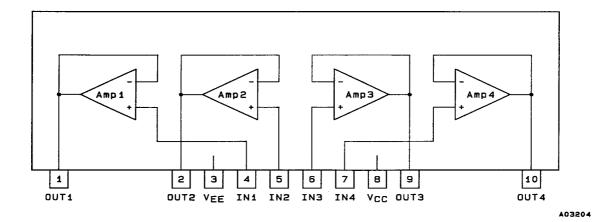
Parameter	Symbol	Conditions	min	typ	max	Unit
Current drain with no load	Icc			10	30	mA
Input offset voltage	V _{IO}	$R_S \leq 10 \text{ k}\Omega$		2	7	mV
Input bias current	I _B			50	500	nA
Input voltage range	V _{ID}	14	-9		+8	V
Maximum output voltage	Vo	$R_L = 33 \Omega$		±8		V
Slew rate	SR	$R_L = 33~\Omega$, $R1 = 2.2~\Omega$, $C1 = 0.1~\mu F$		0.15		V/µs
Limiter current (built-in type)	I _{SC}			0.5		А

Pin Assignments

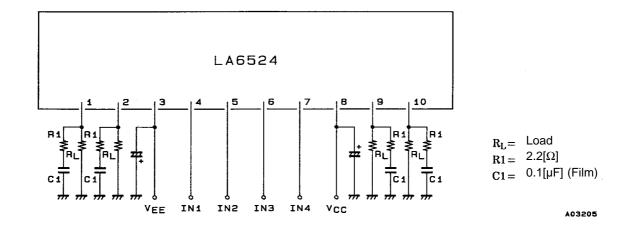


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Block Diagram

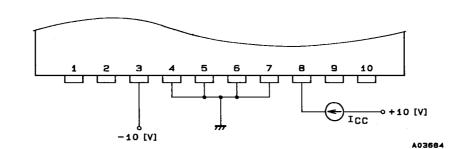


Sample Application Circuit

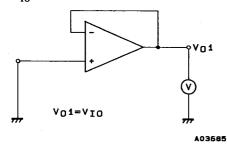


Test Circuit

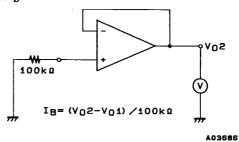




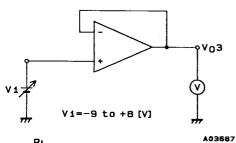
 $2.\ V_{IO}$



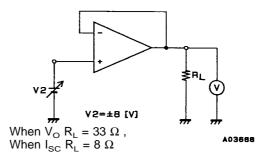
3. I_B



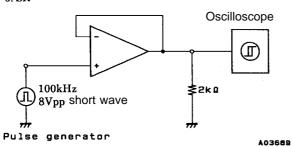
 $4.\ V_{ID}$

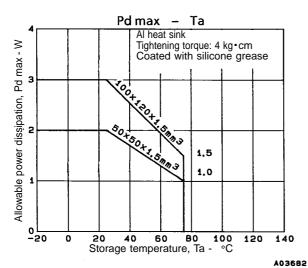


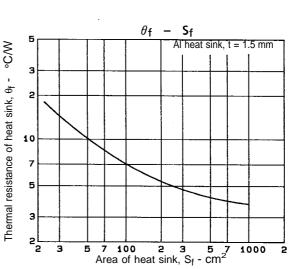
5. $V_{\rm O}$, $I_{\rm SC}$



6. SR^{Pt}







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