



4-output Power Operational Amplifier

Overview

The LA6540M is a 4-output power operational amplifier developed for use in consumer and industrial equipment.

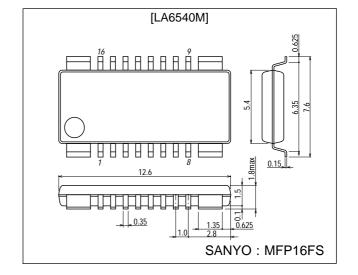
Functions

- High output current ($I_O \max = 0.7 \text{ A} : \text{typ}$)
- · Includes a current limiter
- Wide operating voltage range (±2 to ±16 V)
- Single-supply operation possible (4 to 32 V)
- · Thermal shutdown built in

Package Dimensions

unit: mm

3097-MFP16FS



Specifications

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

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V _{CC} /V _{EE}		±18	V
Input voltage	V _{IN}		±17	V
Allowable power dissipation	Pd max		0.7	W
Operating temperature	Topr		-20 to +75	∘C
Storage temperature	Tstg		-40 to +150	∘C

Operation Characteristics at Ta = 25 °C, $V_{\rm CC}$ = +15 V, $V_{\rm EE}$ = -15 V

Parameter	Symbol	Conditions	min	typ	max	Unit
No-load current drain	I _{CC}	Mute OFF		15	30	mA
Input offset voltage	V _{IO}	$R_S \leq 10 \text{ k}\Omega$		2	7	mV
Input offset current	I _{IO}			10	100	nA
Input bias current	I _B			50	300	nA

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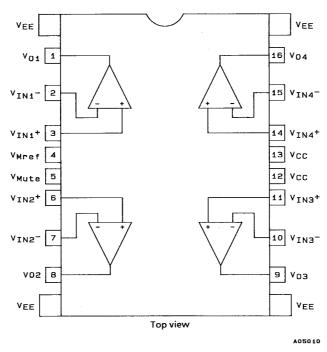
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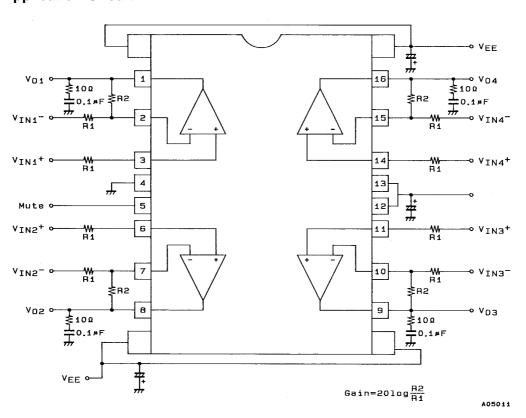
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Parameter	Symbol	Conditions	min	typ	max	Unit
Input common-mode voltage range	V _{ID}		-14		+13	٧
Common-mode signal rejection ratio	CMRR		60	75		dB
Maximum output voltage	Vo	$R_L = 33 \Omega$	±11	±12		V
Slew rate	SR	R_L = 33 Ω, R1 = 2.2 Ω, C1 = 0.1 μF		0.15		V/µs
Limiting current (built in)	I _{SC}		0.5	0.7		Α

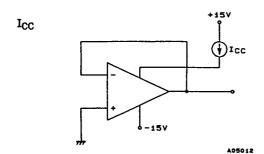
Pin Assignment

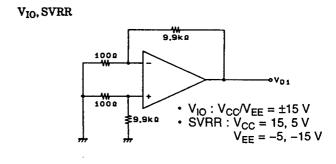


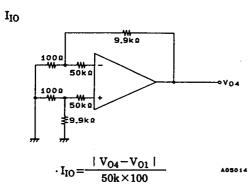
Sample Application Circuit

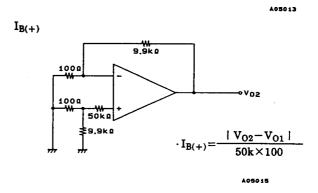


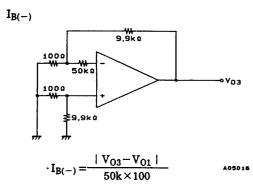
Test Circuits

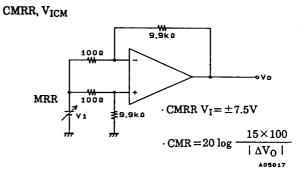


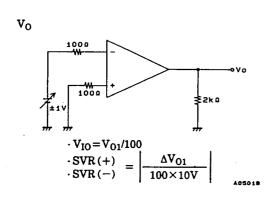


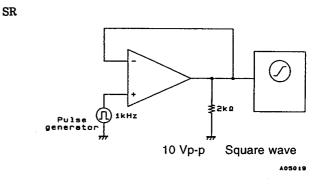


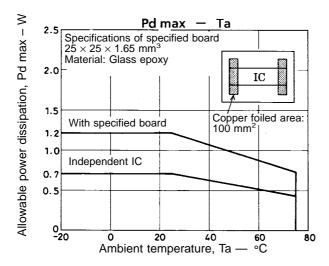












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