Monolithic Linear IC

LA6540M

4-output Power Operational Amplifier

Overview

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

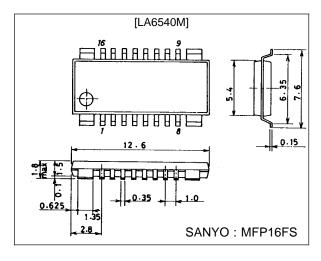
Functions

- High output current ($I_0 max = 0.7 A : typ$)
- · 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 °C

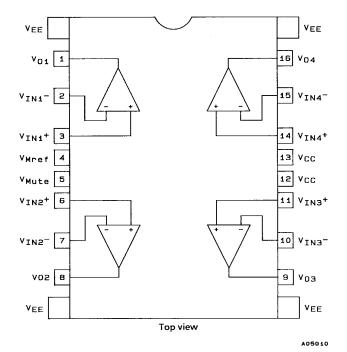
Parameter	Symbol	Conditions	Ratings	Unit	
Maximum supply voltage	V _{CC} /V _{EE}		±18	V	
Input voltage	V _{IN}		±17	V	
Allowable power dissipation	Pd max		0.7	W	
Operating temperature	Topr		-20 to +75	°C	
Storage temperature	Tstg		-40 to +150	°C	

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

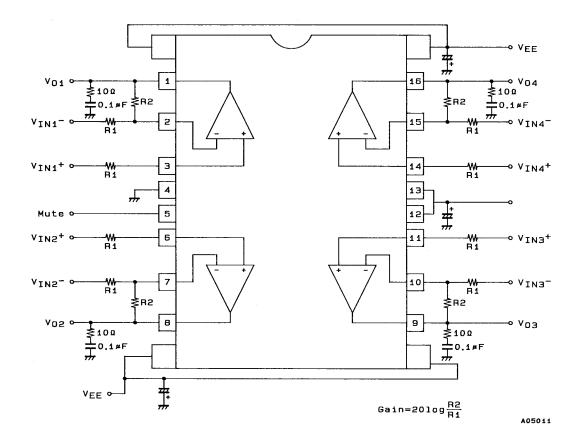
Parameter	Symbol	Conditions	min	typ	max	Unit
No-load current drain	ICC	Mute OFF		15	30	mA
Input offset voltage	V _{IO}	$R_{S} \leq 10 \text{ k}\Omega$		2	7	mV
Input offset current	I _{IO}			10	100	nA
Input bias current	Ι _Β			50	300	nA
Input common-mode voltage	V _{ID}		-14		+13	V
range						
Common-mode signal rejection ratio	CMRR		60	75		dB
	N/	D 00.0		140		V
Maximum output voltage	Vo	$R_L = 33 \Omega$	±11	±12		V
Slew rate	SR	$R_L = 33 \Omega$, $R1 = 2.2 \Omega$, $C1 = 0.1 \mu F$		0.15		V/µs
Limiting current (built in)	I _{SC}		0.5	0.7		A

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

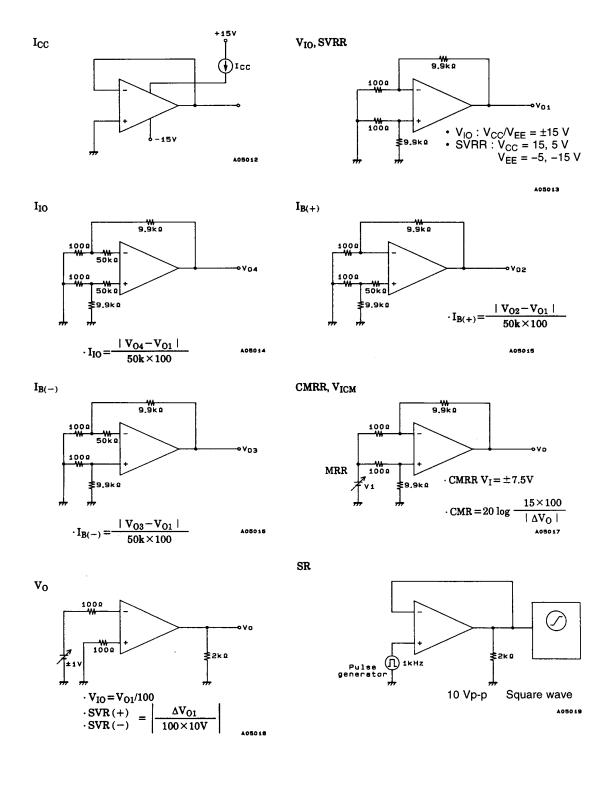
Pin Assignment

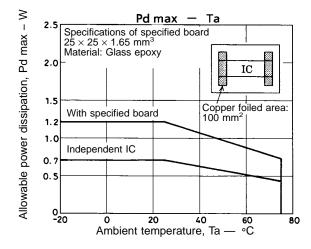


Sample Application Circuit



Test Circuits





No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.

Anyone purchasing any products described or contained herein for an above-mentioned use shall:

- Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
- ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.

This catalog provides information as of February, 1996. Specifications and information herein are subject to change without notice.