



# 3-Output Power Operational Amplifier

## Overview

The LA6520 is a 3-output power OP amp designed for use in consumer, industrial applications.

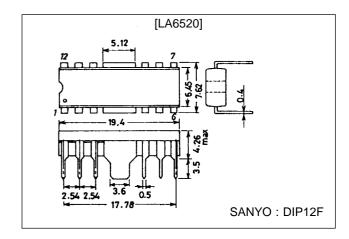
## **Features**

- High output current (Io = 0.5 A)
- · High gain
- · With current limiter
- Wide operating voltage range (±2 to ±18 V)
- Capable of being operated from single supply (4 to 36V)
- · On-chip thermal shutdown

## **Package Dimensions**

unit: mm

#### 3022A-DIP12F



## **Specification**

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

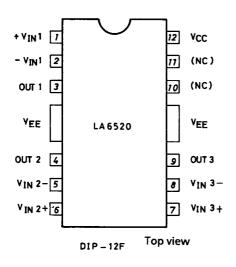
Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V <sub>CC</sub> /V <sub>EE</sub>		±18	V
Differential input voltage	V <sub>IDIf</sub>		30	V
Common-mode input voltage	V <sub>ICOM</sub>		±15	V
Allowable power dissipation	Pd max		1.9	W
Operating temperature	Topr		-20 to +75	°C
Storage temperature	Tstg		-55 to +150	°C

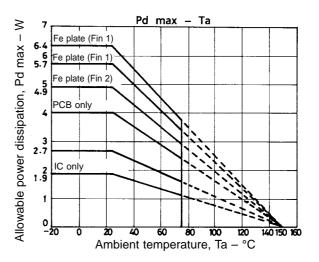
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## Operating Characteristics at Ta = 25°C, $V_{CC}/V_{EE}$ = $\pm$ 15 V

Parameter	Symbol	Conditions	min	typ	max	Unit
Quiescent current dissipation	Icco			20		mA
Input offset voltage	$V_{IO}$	$Rs \leq 10 \text{ k}\Omega$		2		mV
Input offset current	I <sub>IO</sub>			10		nA
Input bias current	I <sub>B</sub>			50		nA
Common-mode input voltage	V		-15		+13	V
range	V <sub>ICM</sub>		-15		+13	V
Common-mode rejection	CMR			80		dB
Maximum output voltage	Vo	$R_L = 33 \Omega$		±12		V
Voltage gain	VGO			85		dB
Slew rate	SR	$G_V = 0$ , $R_L = 33 \Omega$ , $R = 10 \Omega$ , $L = 0.1 \mu F$		0.15		V/µs
Supply voltage rejection	SVR			30		μV/V
Limiting current (On-chip limiter)	I <sub>SC</sub>			0.5		Α

## **Pin Assignment**





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