



SURFACE MOUNT WITH HEAT SLUG ON TOP 52-PIN QFP PACKAGE STYLE

Body Footprint 20 mm x 20 mm

Features

- » High cont. output current – 1A/2A
- » High PEAK output current – 4A/6A
- » High supply voltage – 200V
- » Internal power dissipation – 52W
- » Monolithic MOS technology
- » Current limit w/ over-current flag
- » Amplifier disable feature
- » Configurable as bridge or parallel



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code to learn
more about
PA169

PA169 / PA169A

200V, Dual High Power Operational Amplifier

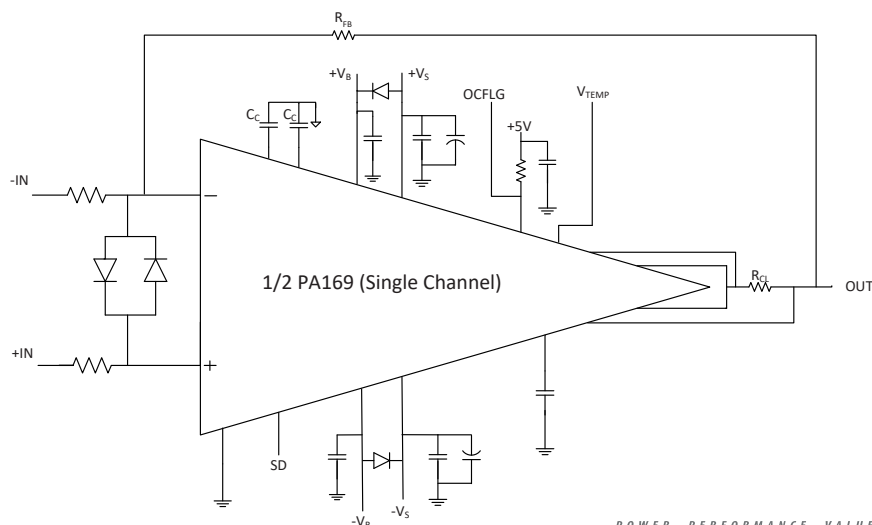
Product Overview

The PA169 is a dual high voltage monolithic operational amplifier. The PA169 houses two independent 200V, 4A peak operational amplifier (PA167) circuits within a 52-pin QFP package. Each channel consists of a monolithic IC input stage and an accompanying MOSFET push-pull output stage. This architecture favors high density power applications with large output current or voltage swing demands.

Both independent channels are designed for operation up to 200V while providing 4A of peak output current. High package pin count allows for separate voltage supply pins for the amplifier IC and the output stage to optimize the overall power dissipation in each channel. Each channel offers a wide-range temperature compensated current limit. An over-current flag as well as an output disable function allow for optional implementation of system protection. Optional external phase compensation provides the user with flexibility in creating optimum gain and bandwidth conditions for their application.

Typical Applications

With an exceptionally compact size, designers are afforded the ability to maximize board real estate in circuit designs with high power requirements. A wide range of target applications include: High density voltage/current supplies, electrostatic transducers, deflection, deformable mirror focusing, and piezoelectric positioning.

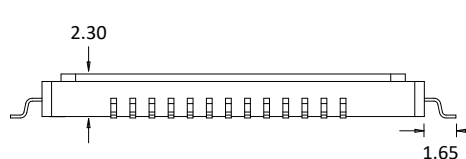
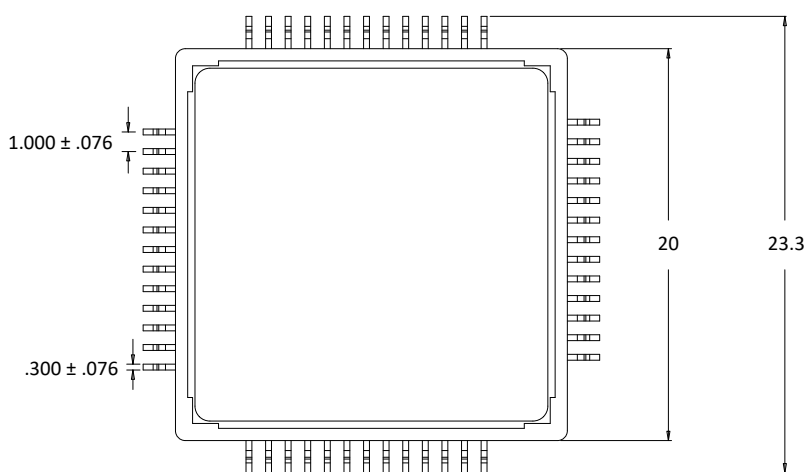


PA169 / PA169A

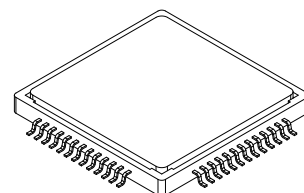
200V, 6A, Dual High Power Operational Amplifier

Product Absolute Maximum Specifications

SPECIFICATION PARAMETER	MAX
Total Supply Voltage	205V
Output Current Continuous (PEAK), within SOA, PA169A	2A (6A)
Output Current Continuous (PEAK), within SOA, PA169	1A (4A)
Slew Rate	35V/μs
Power Dissipation, Internal, Continuous, per amplifier	30W
Power Dissipation, Internal, Continuous, both amplifiers	52W
Temperature, Junction	150 °C
Temperature, Storage	-40 to 150 °C
Operating Temperature Range, Case	-40 to +85 °C
RoHS Compliant	Yes
Package Style	52-Pin Power Quad
Package Body Measurement	20 mm x 20 mm



Dimensions are in mm



POWER, PERFORMANCE, VALUE

Precision ICs

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