



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

Body Footprint 20 mm x 20 mm

Features

- » High cont. output current – 8A
- » High PEAK output current – 12A
- » High supply voltage – 200V
- » Internal power dissipation – 52W
- » Monolithic MOS technology
- » Current limit w/ over-current flag
- » Amplifier disable feature

PA168 / PA168A

200V, 12A, High Power Operational Amplifier

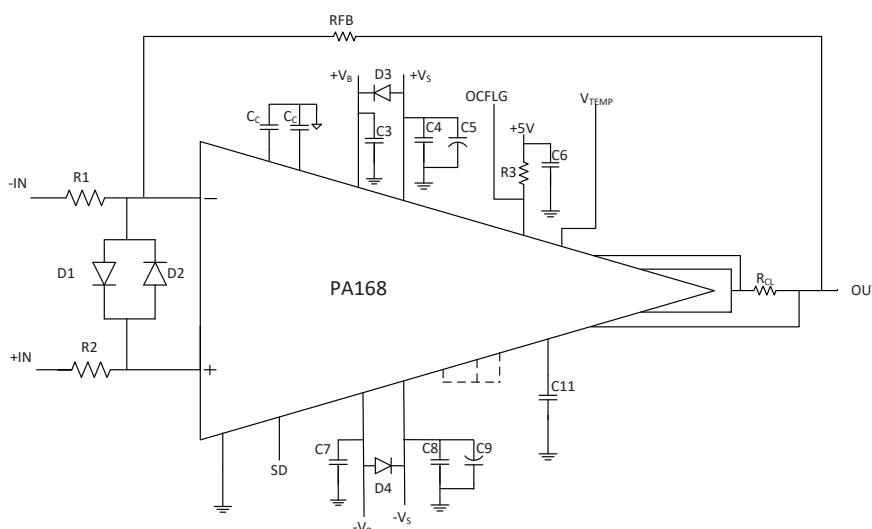
Product Overview

The PA168 is a high voltage MOSFET operational amplifier with a monolithic amplifier core designed for high density power applications with high output currents or voltages. The device is designed for output voltages up to 200V, with the PA168 providing 4A of continuous current. Separate supplies for the amplifier core and the output stage optimize the overall power dissipation in the devices.

The PA168 offers a wide-range, temperature compensated current limit. An additional over-current flag allows for a flexible implementation of system protection, with an output disable function adding another layer of optional protection. External compensation provides the user flexibility in choosing optimum gain and bandwidth for the 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.



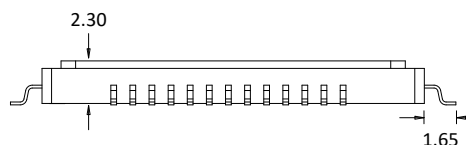
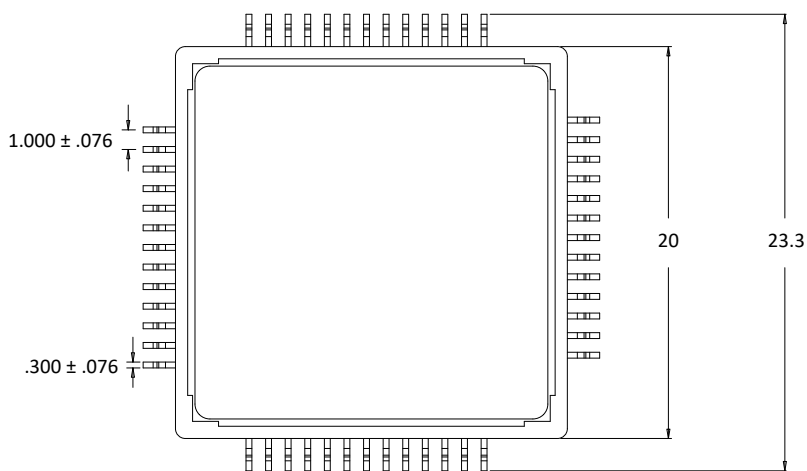
Scan the QR
code to learn
more about
PA168

PA168 / PA168A

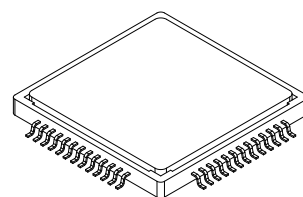
200V, 12A, High Power Operational Amplifier

Product Absolute Maximum Specifications

SPECIFICATION PARAMETER	MAX
Total Supply Voltage	205V
Output Current Continuous (PEAK), within SOA, PA168A	8A (12A)
Output Current Continuous (PEAK), within SOA, PA168	4A (10A)
Slew Rate	35V/ μ s
Power Dissipation, Internal, Continuous	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

APEX MICROTECHNOLOGY INC.

5980 N Shannon Road
Tucson, Arizona 85741 USA
T: +1.520.690.8600
F: +1.520.888.3329

SALES SUPPORT

Toll Free: +1.800.862.1032
eMail: custserv@apexanalog.com

TECHNICAL SUPPORT

Toll Free: +1.800.546.2739
eMail: Apex.Support@apexanalog.com

WWW.APEXANALOG.COM

© 2026 Apex Microtechnology, Inc. All rights reserved. Product information subject to change without notice. The Apex Microtechnology logo is a trademark of Apex Microtechnology, Inc.

APEX
MICROTECHNOLOGY
PRECISION • POWER • ANALOG