



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20241112001.1
Datasheet for OPAx132

Change Notification

Date: November 13, 2024

Dear Customer:

This is a notice of change to a product data sheet for a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

We request you acknowledge receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance and approval of this change. If samples or additional data are required, requests must be received within **30 days** of this notification.

The proposed first ship date is indicated on page 3 of this notification, unless customer agreement has been reached on an earlier implementation of the change.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the life time buy offering/discontinuance plan.

For questions regarding this notice, contact your local Field Sales Representative or the Change Management team.

Sincerely,

Change Management Team
SC Business Services

20241112001.1
Data Sheet Change Notification
Attachments

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, you have recently purchased these devices. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
OPA132UA	
OPA2132UA	
OPA2132U	
OPA132UA	
OPA4132UA	
OPA2132U/2K5	
OPA4132UA	
OPA132UA/2K5	
OPA132U	
OPA2132UA/2K5	
OPA132U/2K5	
OPA2132UA/2K5	
OPA132U	
OPA132U/2K5	
OPA4132UA/2K5	
OPA2132UA	

Technical details of this Product Change follow on the next page(s).

PCN Number:	20241112001.1		PCN Date:	November 13, 2024
Title:	Datasheet for OPAx132			
Customer Contact:	Change Management team	Dept:	Quality Services	
Proposed 1st Ship Date:	February 11, 2025			
Change Type:				
☐	Assembly Site	☐	Design	☐
☐	Assembly Process	☒	Datasheet	☐
☐	Assembly Materials	☐	Part number change	☐
☐	Mechanical Specification	☐	Test Site	☐
☐	Packing/Shipping/Labeling	☐	Test Process	☐
☐		☐	Wafer Bump Material	
☐		☐	Wafer Bump Process	
☐		☐	Wafer Fab Site	
☐		☐	Wafer Fab Materials	
☐		☐	Wafer Fab Process	

PCN Details

Description of Change:

The product datasheet(s) is being updated as summarized below.
The following change history provides further details.



OPA132, OPA2132, OPA4132

SBOS054C – JANUARY 1995 – REVISED AUGUST 2024

Changes from Revision B (September 2015) to Revision C (August 2024)

Page

• Updated the numbering format for tables, figures, and cross-references throughout the document.....	1
• Added information about newer, next-generation OPA2156.....	1
• Changed high open-loop gain from 130dB (600Ω load) to 126dB (2kΩ load).....	1
• Deleted all single and quad channel PDIP package references from this data sheet.....	1
• Updated <i>Device Information</i> table.....	1
• Updated <i>Pin Configuration and Functions</i> format.....	3
• Changed OPA132 pin 1 and pin 8 from "Offset Trim" to "NC".....	3
• Changed input voltage from (V ₋) – 0.7 and (V ₊) + 0.7 to (V ₋) – 0.5 and (V ₊) + 0.5 in <i>Absolute Maximum Ratings</i>	5
• Added input current and related footnote to <i>Absolute Maximum Ratings</i>	5
• Added <i>Thermal Information</i>	6
• Changed format of <i>Electrical Characteristics</i> to latest standard.....	7
• Updated nominal conditions in the header of <i>Electrical Characteristics</i>	7
• Added ± to power supply rejection ratio (offset vs temperature) and input bias current values.....	7
• Changed common-mode voltage MAX value from (V ₊) – 2.5V to (V ₊) – 3.5V.....	7
• Changed common-mode rejection ratio and common-mode input impedance test conditions from –12.5V ≤ V _{CM} ≤ 12.5V to –12.5V ≤ V _{CM} ≤ 11.5V.....	7
• Changed differential input impedance from 10 ¹⁰ Ω 2pF to 10 ¹⁰ Ω 10pF.....	7
• Changed common-mode input impedance from 10 ¹⁰ Ω 6pF to 10 ¹⁰ Ω 7pF.....	7
• Changed overload recovery time from 0.5μs to 600ns.....	7
• Changed overload recovery time test condition from G = ± to G = ±1 to fix typo.....	7
• Moved voltage output negative MIN values to MAX values.....	7
• Deleted redundant power supply and temperature range sections already covered in <i>Recommended Operating Conditions</i>	7
• Deleted note 1 from <i>Electrical Characteristics</i>	7
• Changed <i>Typical Characteristics</i> header test conditions to match <i>Electrical Characteristics</i>	8
• Changed Figure 16, <i>Small-Signal Overshoot vs Load Capacitance</i> into two plots, Figure 5-16 for G = +1 and Figure 5-17 for G = –1.....	8
• Updated Figure 5-18, <i>Output Voltage Swing vs Output Current</i>	8
• Updated <i>Functional Block Diagram</i>	11
• Updated <i>Offset Voltage Trim</i>	12
• Updated Figure 7-3, <i>OPA132 Layout Example for the Noninverting Configuration</i>	15

The datasheet number will be changing.

Device Family	Change From:	Change To:
OPAx132	SBOS054B	SBOS054C

The changes may be reviewed at the datasheet links provided.
<http://www.ti.com/product/OPA132>

Reason for Change:

To accurately reflect device characteristics. The datasheet update is driven by the changes announced in PCNs 20231219008 and 20240613004

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

Electrical specification performance changes as indicated above.

Changes to product identification resulting from this PCN:

None.

Product Affected:

Devices affected by changes in PCN 20231219008

OPA132U	OPA132UA	OPA2132U	OPA2132UA
OPA132U/2K5	OPA132UA/2K5	OPA2132U/2K5	OPA2132UA/2K5

Devices affected by changes in PCN 20240613004

OPA4132UA	OPA4132UA/2K5		
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For questions regarding this notice, e-mails can be sent to the Change Management team or your local Field Sales Representative.

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