12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20240902002.1
Datasheet for OPAx134

Change Notification

Date: September 03, 2024
To: MOUSER PCN

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

20240902002.1
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
OPA134UA	NULL
OPA134UA/2K5	NULL
OPA2134PA	NULL
OPA2134PAG4	NULL
OPA2134UA	NULL
OPA2134UA/2K5	NULL
OPA2134UAE4	NULL
OPA2134UAG4	NULL
OPA4134UA	NULL
OPA4134UA/2K5	NULL
OPA4134UAE4	NULL

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

PCN Number:	20240902002.1	**PCN Date:**	September 03, 2024
Title:	Datasheet for OPAx134		
Customer Contact:	Change Management team	**Dept:**	Quality Services
Proposed 1st Ship Date:	December 02, 2024		
Change Type:			

☐	Assembly Site	☐	Design	☐	Wafer Bump Material
☐	Assembly Process	☒	Datasheet	☐	Wafer Bump Process
☐	Assembly Materials	☐	Part number change	☐	Wafer Fab Site
☐	Mechanical Specification	☐	Test Site	☐	Wafer Fab Materials
☐	Packing/Shipping/Labeling	☐	Test Process	☐	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.

Changes from Revision A (April 2015) to Revision B (August 2024) **Page**

- Updated the numbering format for tables, figures, and cross-references throughout the document ... 1
- Updated open-loop gain load condition in *Features* ... 1
- Deleted PDIP package option for quad version device ... 1
- Updated *Device Information* table ... 1
- Changed W to Ω symbol in front-page figure (typo) ... 1
- Updated *Pin Configuration and Functions* format ... 3
- Changed OPA134 pin 1 and 8 from "Offset Trim" to "NC" ... 3
- Changed input voltage from (V–) – 0.5V to (V+) + 0.5V to (V–) – 0.7V to (V+) + 0.7V in *Absolute Maximum Ratings* ... 5
- Added input current and related footnote to *Absolute Maximum Ratings* ... 5
- Added *Thermal Information* ... 6
- Updated format of *Electrical Characteristics* ... 7
- Updated nominal conditions in the header of *Electrical Characteristics* ... 7
- Changed headroom from 23.6dB to 21.3dB ... 7
- Deleted slew rate MIN ... 7
- Changed overload recovery time from 0.5µs to 0.6µs ... 7
- Changed input offset voltage MIN from ±0.5mV to ±1mV and MAX from ±2mV to ±3.5mV ... 7
- Deleted input offset voltage over temperature MAX ... 7
- Changed channel separation from 135dB to 128dB for dc, and from 130dB to 126dB for f = 20kHz ... 7
- Deleted note 3 ... 7
- Added ± to input bias current TYP ... 7
- Changed common-mode voltage MAX value from (V+) – 2.5V to (V+) – 3.5V ... 7
- Updated common-mode rejection ratio and common-mode input impedance test conditions ... 7
- Changed differential input impedance from $10^{10}\Omega$ || 1pF to $10^{10}\Omega$ || 5pF ... 7
- Changed common-mode input impedance from $10^{10}\Omega$ || 3pF to $10^{10}\Omega$ || 4.3pF ... 7
- Deleted open-loop voltage gain for R_L = 600Ω ... 7
- Deleted voltage output for R_L = 600Ω ... 7
- Moved voltage output negative MIN values to MAX values ... 7
- Deleted output current ... 7
- Deleted note 1 from *Electrical Characteristics* ... 7
- Changed typos in typical characteristic graphs; corrected ohms symbol (Ω) and radical symbol (√) ... 9
- Changed test condition for *Typical Characteristics* from V_S = 15V to V_S = ±15V (typo) ... 9
- Changed Figure 26, *Small-Signal Overshoot vs Load Capacitance* into new Figures 5-23 and 5-24 ... 9
- Deleted old Figure 20, *Output Voltage Swing vs Output Current*, Figure 21, *Offset Voltage Production Distribution*, Figure 22, *Offset Voltage Drift Production Distribution* ... 9
- Updated *Functional Block Diagram* ... 15
- Updated *Offset Voltage Trim* ... 16
- Updated *OPA134 Layout Example for the Noninverting Configuration* ... 19

The datasheet number will be changing.

Device Family	Change From:	Change To:
OPAx134	SBOS058A	**SBOS058B**

These changes may be reviewed at the datasheet links provided.
http://www.ti.com/product/OPA134

Reason for Change:

To accurately reflect device characteristics.

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:			
OPA134UA	OPA134UA/2K5	OPA2134PA	OPA2134PAG4
OPA2134UA	OPA2134UA/2K5	OPA2134UA/2K5E4	OPA2134UAE4
OPA2134UAG4	OPA4134UA	OPA4134UA/2K5	OPA4134UAE4

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