

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:					
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>	Assembly Process	<input checked="" type="checkbox"/>	Datasheet	<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input type="checkbox"/>	Wafer Fab Site
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Wafer Fab Materials
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Process
PCN Details					
Description of Change:					
<p>The product datasheet(s) is being updated as summarized below. The following change history provides further details.</p>					
			OPA134, OPA2134, OPA4134 SBOS058B – DECEMBER 1997 – REVISED AUGUST 2024		

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 0.5 μ s to 0.6 μ s..... 7
- Changed input offset voltage MIN from ± 0.5 mV to ± 1 mV and MAX from ± 2 mV to ± 3.5 mV..... 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 \pm 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 $10^{10}\Omega \parallel 1$ pF to $10^{10}\Omega \parallel 5$ pF..... 7
- Changed common-mode input impedance from $10^{10}\Omega \parallel 3$ pF to $10^{10}\Omega \parallel 4.3$ pF..... 7
- Deleted open-loop voltage gain for $R_L = 600\Omega$ 7
- Deleted voltage output for $R_L = 600\Omega$ 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 ($\sqrt{\quad}$)..... 9
- Changed test condition for *Typical Characteristics* from $V_S = 15$ V to $V_S = \pm 15$ V (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.

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