

PCN Number:		20240520008.1				PCN Date:		May 23, 2024	
Title:		Datasheet for OPAx130							
Customer Contact:		Change Management team				Dept:		Quality Services	
Proposed 1st Ship Date:		August 21, 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"/>	Data Sheet			<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:

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



OPA130, OPA2130, OPA4130
SBOS053B – MAY 1998 – REVISED MAY 2024

Changes from Revision A (March 2006) to Revision B (May 2024)

Page

• Updated the numbering format for tables, figures, and cross-references throughout document.....	1
• Deleted DIP packages from data sheet.....	1
• Updated open-loop gain to match <i>Electrical Characteristics</i> in <i>Features</i>	1
• Added <i>Applications</i>	1
• Updated pin diagrams, added pin function tables, and moved all to new <i>Pin Configuration and Functions</i>	3
• Updated input voltage in <i>Absolute Maximum Ratings</i>	5
• Added input current and related footnote to <i>Absolute Maximum Ratings</i>	5
• Added <i>Recommended Operating Conditions</i> and <i>Thermal Information</i>	5
• Changed format of <i>Electrical Characteristics</i> to latest standard.....	7
• Updated nominal conditions in the header of <i>Electrical Characteristics</i>	7
• Deleted channel separation specification.....	7
• Updated common-mode voltage.....	7
• Updated common-mode rejection ratio and common-mode input impedance test conditions.....	7
• Changed differential input impedance from $10^{13}\Omega \parallel 1\text{pF}$ to $10^{13}\Omega \parallel 5\text{pF}$	7
• Changed common-mode input impedance from $10^{13}\Omega \parallel 3\text{pF}$ to $10^{13}\Omega \parallel 4.3\text{pF}$	7
• Updated open loop voltage gain MIN and TYP values for $R_L = 10\text{k}\Omega$ and $R_L = 2\text{k}\Omega$	7
• Updated settling time test condition.....	7
• Moved voltage output negative MIN values to MAX values.....	7
• Changed capacitive load drive specification from 10nF to See <i>Typical Characteristics</i>	7
• Deleted note 1 from <i>Electrical Characteristics</i>	7
• Deleted Figure 5-7, <i>A_{OL}, CMR, PSR vs Temperature</i>	8
• Updated Figure 5-17, <i>Small-Signal Overshoot vs Load Capacitance</i>	8
• Updated text in <i>Offset Voltage Trim</i>	11
• Changed Figure 1, <i>OPA130 Offset Voltage Trim Circuit</i> , to Figure 6-1, <i>Second-Order Low-Pass Filter</i>	11

The datasheet number will be changing.

Device Family	Change From:	Change To:
OPAx130	SBOS053A	SBOS053B

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/OPA130>

Reason for Change:

Supply Continuity

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):			
These changes are part of our multiyear plan to transition products from our 150-millimeter factories to newer, more efficient manufacturing processes and technologies, underscoring our commitment to product longevity and supply continuity. Datasheet changes associated with PCN 20240202010			
Changes to product identification resulting from this PCN:			
None.			
Product Affected:			
OPA130UA	OPA130UA/2K5	OPA2130UA	OPA2130UA/2K5
OPA4130UA	OPA4130UA/2K5		

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

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES “AS IS” AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI’s products are provided subject to TI’s Terms of Sale (www.ti.com/legal/termsofsale.html) or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI’s provision of these resources does not expand or otherwise alter TI’s applicable warranties or warranty disclaimers for TI products.