



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**Notification# 20160812001
Datasheet for OPA4188
Change Notification**

Date: 9/26/2016
To: Newark/Farnell 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.

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 PCN Manager (PCN_ww_admin_team@list.ti.com).

Sincerely,

PCN Team
SC Business Services

**Notification# 20160812001
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, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
OPA4188AID	null
OPA4188AIPW	null

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

PCN Number:	20160812001	PCN Date:	Sept. 26, 2016
Title:	Datasheet for OPA4188		
Customer Contact:	PCN Manager	Dept:	Quality Services
Proposed 1st Ship Date:	Dec. 26, 2016		
Change Type:			
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design
<input type="checkbox"/>	Assembly Process	<input checked="" type="checkbox"/>	Data Sheet
<input type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process
		<input type="checkbox"/>	Wafer Bump Site
		<input type="checkbox"/>	Wafer Bump Material
		<input type="checkbox"/>	Wafer Bump Process
		<input type="checkbox"/>	Wafer Fab Site
		<input type="checkbox"/>	Wafer Fab Materials
		<input type="checkbox"/>	Wafer Fab Process

Notification Details

Description of Change:

Texas Instruments Incorporated is announcing an information only notification.

The product datasheet(s) is being updated as summarized below.

The following change history provides further details.



OPA4188

SBOS641D – JUNE 2012 – REVISED SEPTEMBER 2016

Changes from Revision C (April 2015) to Revision D

Page

• Changed high supply over-temperature input bias current limit in <i>High-Voltage Operation Electrical Characteristics</i> table	6
• Changed high supply noise units in <i>High-Operating Voltage Electrical Characteristics</i> table	6
• Changed high supply room-temperature quiescent current limit in <i>High-Voltage Operation Electrical Characteristics</i> table	7
• Changed high supply over-temperature quiescent current limit in <i>High-Voltage Operation Electrical Characteristics</i> table	7
• Changed low supply over-temperature input bias current limit in <i>Low-Voltage Operation Electrical Characteristics</i> table	7
• Changed low supply noise units for input voltage noise density parameter in <i>Low-Voltage Operation Electrical Characteristics</i> table	7
• Changed low supply room-temperature quiescent current limit in <i>Low-Voltage Operation Electrical Characteristics</i> table ..	8
• Changed low supply over-temperature quiescent current limit in <i>Low-Voltage Operation Electrical Characteristics</i> table ...	8

	PARAMETER	CONDITIONS	PREVIOUS REVISION				NEW REVISION				
			MIN	TYP	MAX	UNIT	MIN	TYP	MAX	UNIT	
V _S = ±4 V to ±18 V	INPUT BIAS CURRENT										
	I _B	Input bias current	V _{CM} = V _S / 2 T _A = -40°C to +125°C		±160	±1400	pA		±160	±1400	pA
	I _{OS}	Input offset current	T _A = -40°C to +125°C		±320	±2800	pA		±320	±2800	pA
	POWER SUPPLY										
	I _Q	Quiescent Current (per amplifier)	V _S = ±4 V to V _S = ±18 V I _O = 0 mA, T _A = -40°C to +125°C		415	475	μA		415	500	μA
						525	μA			570	μA
V _S = ±2 V to ±4 V	INPUT BIAS CURRENT										
	I _B	Input bias current	V _{CM} = V _S / 2 T _A = -40°C to +125°C		±160	±1400	pA		±160	±1400	pA
	I _{OS}	Input offset current	T _A = -40°C to +125°C		±320	±2800	pA		±320	±2800	pA
	POWER SUPPLY										
	I _Q	Quiescent Current (per amplifier)	V _S = ±2 V to V _S = ±4 V I _O = 0 mA, T _A = -40°C to +125°C		385	440	μA		385	465	μA
						525	μA			540	μA

The datasheet number will be changing.

Device Family	Change From:	Change To:
OPA4188	SBOS641C	SBOS641D

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/OPA4188>

Reason for Change:

To more accurately reflect device characteristics.

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

No anticipated impact. This is a specification change announcement only. There are no changes to the actual device.

Changes to product identification resulting from this PCN:

None.

Product Affected:

OPA4188AID	OPA4188AIDR	OPA4188AIPW	OPA4188AIPWR
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For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com