

<b>PCN Number:</b>	20160926000	<b>PCN Date:</b>	Sept. 27, 2016
<b>Title:</b>	Datasheet for OPA188		
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>	<b>Dept:</b>	Quality Services
<b>Proposed 1<sup>st</sup> Ship Date:</b>	Dec. 27, 2016		
<b>Change Type:</b>			
<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"/>		<input type="checkbox"/>	Wafer Bump Site
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Site
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Materials
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Process

### Notification Details

#### Description of Change:

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

The following change history provides further details.



**OPA188**

SBOS642B –MARCH 2013–REVISED SEPTEMBER 2016

#### Changes from Revision A (March 2013) to Revision B

Page

- Added Device Information, Device Comparison, ESD Ratings, and Recommended Operating Conditions tables, and Detailed Description, Applications and Implementation, Power Supply Recommendations, Layout, Device and Documentation Support, and Mechanical, Packaging, and Orderable Information sections ..... 1
- Deleted Package Information table; all information now available in the package option addendum at the end of the data sheet ..... 3
- Changed *input bias current* maximum value for over-temperature test condition in Electrical Characteristics ..... 5
- Changed *input offset current* maximum value for over-temperature test condition in Electrical Characteristics ..... 5
- Changed *quiescent current* values in Electrical Characteristics ..... 5
- Changed *input bias current* maximum value for over-temperature test condition in Electrical Characteristics ..... 6
- Changed *input offset current* maximum value for over-temperature test condition in Electrical Characteristics ..... 6
- Changed *quiescent current* maximum values in Electrical Characteristics ..... 6

	PARAMETER	CONDITIONS	PREVIOUS REVISION				NEW REVISION				
			MIN	TYP	MAX	UNIT	MIN	TYP	MAX	UNIT	
$V_S = \pm 4\text{ V to } \pm 18\text{ V}$	<b>INPUT BIAS CURRENT</b>										
	$I_b$	Input bias current	$V_{CM} = V_S / 2$ $T_A = -40^\circ\text{C to } +125^\circ\text{C}$		$\pm 160$	$\pm 1400$	pA		$\pm 160$	$\pm 1400$	pA
						$\pm 8$	nA		$\pm 18$	nA	
	$I_{OS}$	Input offset current	$T_A = -40^\circ\text{C to } +125^\circ\text{C}$		$\pm 320$	$\pm 2800$	pA		$\pm 320$	$\pm 2800$	pA
						$\pm 4$	nA		$\pm 6$	nA	
$V_S = \pm 2\text{ V to } \pm 4\text{ V}$	<b>POWER SUPPLY</b>										
	$I_Q$	Quiescent Current (per amplifier)	$V_S = \pm 4\text{ V to } \pm 18\text{ V}$ $I_O = 0\text{ mA}, T_A = -40^\circ\text{C to } +125^\circ\text{C}$		450	510	$\mu\text{A}$		450	510	$\mu\text{A}$
						540	$\mu\text{A}$		600	$\mu\text{A}$	
$V_S = \pm 2\text{ V to } \pm 4\text{ V}$	<b>INPUT BIAS CURRENT</b>										
	$I_b$	Input bias current	$V_{CM} = V_S / 2$ $T_A = -40^\circ\text{C to } +125^\circ\text{C}$		$\pm 160$	$\pm 1400$	pA		$\pm 160$	$\pm 1400$	pA
						$\pm 8$	nA		$\pm 18$	nA	
	$I_{OS}$	Input offset current	$T_A = -40^\circ\text{C to } +125^\circ\text{C}$		$\pm 320$	$\pm 2800$	pA		$\pm 320$	$\pm 2800$	pA
						$\pm 4$	nA		$\pm 6$	nA	
$V_S = \pm 2\text{ V to } \pm 4\text{ V}$	<b>POWER SUPPLY</b>										
	$I_Q$	Quiescent Current (per amplifier)	$V_S = \pm 2\text{ V to } \pm 4\text{ V}$ $I_O = 0\text{ mA}, T_A = -40^\circ\text{C to } +125^\circ\text{C}$		425	480	$\mu\text{A}$		425	485	$\mu\text{A}$
						525	$\mu\text{A}$		575	$\mu\text{A}$	

The datasheet number will be changing.

Device Family	Change From:	Change To:
<b>OPA188</b>	SBOS642A	<b>SBOS642B</b>

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/OPA188>

**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:**

OPA188AID	OPA188AIDBVR	OPA188AIDBVT	OPA188AIDGKR
OPA188AIDGKT	OPA188AIDR		

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

<b>Location</b>	<b>E-Mail</b>
USA	<a href="mailto:PCNAmericasContact@list.ti.com">PCNAmericasContact@list.ti.com</a>
Europe	<a href="mailto:PCNEuropeContact@list.ti.com">PCNEuropeContact@list.ti.com</a>
Asia Pacific	<a href="mailto:PCNAsiaContact@list.ti.com">PCNAsiaContact@list.ti.com</a>
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