

PCN Number:	20180629001	PCN Date:	July 2, 2018
Title:	Datasheet for OPA837, OPA2837		
Customer Contact:	PCN Manager	Dept:	Quality Services
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"/>		<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:

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.



OPA837, OPA2837

SBOS673A | SEPTEMBER 2017 – REVISED APRIL 2018

Changes from Original (September 2017) to Revision A

Page

• Added OPA2837 to document	1
• Added <i>Single-Supply Operating Range Features</i> bullet.....	1
• Changed 1 SPS to 1 MSPS in front page figure	1
• Added footnote to <i>Pin Functions</i> table	3
• Changed footnote describing method of computation of slew rate in Electrical Characteristics: $V_S = 5\text{ V}$ table	6
• Changed default test condition in Electrical Characteristics: $V_S = 3\text{ V}$ table	8
• Changed footnote describing method of computation of slew rate in Electrical Characteristics: $V_S = 3\text{ V}$ table	8
• Changed values for common-mode input range, high in Electrical Characteristics: $V_S = 3\text{ V}$ table	9
• Changed values for V_{OH} in Electrical Characteristics: $V_S = 3\text{ V}$ table	9
• Changed $V_O = 20\text{ mV}_{PP}$ to $V_{OUT} = 200\text{ mV}_{PP}$ in conditions of <i>Noninverting Response Flatness vs Gain</i> and <i>Inverting Response Flatness vs Gain</i> figures.....	10
• Changed <i>gain</i> -1 V/V to -2 V/V , swapped legend colors in <i>Inverting Overdrive Recovery</i> figure.....	11
• Changed $V_{OUT} = 2\text{ V}_{PP}$ to $V_{OUT} = 1\text{ V}_{PP}$ in conditions of <i>Typical Characteristics: $V_S = 3.0\text{ V}$</i> section.....	13
• Changed $V_O = 20\text{ mV}_{PP}$ to $V_{OUT} = 200\text{ mV}_{PP}$ in <i>Noninverting Response Flatness vs Gain</i> and <i>Inverting Response Flatness vs Gain</i> figure conditions.....	13
• Changed V_{IN} to $V_{IN} \times -1$ gain, swapped legend colors in <i>Inverting Overdrive Recovery</i> figure	14
• Changed $V_O = 2\text{ V}_{PP}$ to $V_{OUT} = 1\text{ V}_{PP}$ in <i>Harmonic Distortion vs R_{LOAD}</i> figure conditions.....	15
• Changed $V_{OUT} = 2\text{ V}_{PP}$ to $V_{OUT} = 1\text{ V}_{PP}$ in <i>Harmonic Distortion vs Gain Magnitude</i> figure conditions.....	15
• Changed y-axis caption in <i>Turn-On Time to Sinusoidal Input</i> and <i>Turn-Off Time to Sinusoidal Input</i> figures.....	18
• Added OPA838 row to <i>Device Family Comparison</i> table.....	22
• Changed EVM link in <i>Split-Supply Operation</i> section from OPA837DBV to OPA835DBV.....	25
• Changed V2 value from 2.5 to -2.5 V in <i>Characterization Test Circuit for Network, Spectrum Analyzer</i> figure	29
• Changed V_{EE} value from 2.5 V to -2.5 V in <i>Inverting Characterization Circuit for Network Analyzer</i> figure	31
• Changed 1 SPS to 1 MSPS in OPA837 and ADS8860 Example Circuit figure.....	37

The datasheet number will be changing.

Device Family	Change From:	Change To:
OPA837, OPA2837	SBOS673	SBOS673A

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/OPA837>

Reason for Change:

To 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:			
OPA2837IDGKR	OPA2837IDGKT	OPA837IDBVR	OPA837IDBVT
OPA837IDCKR	OPA837IDCKT		

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

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