PCN Numb	PCN Number: 20171023000 PCN Date:					Nov 27, 2017				
Title:	LMV84x D	ie Revisi	on C	hange and	Data	sheet Update	es			
Customer Contact:		PCN Manager Dept:				Services				
Proposed	1 st Ship Da	ate:	Feb	27, 2018		Estimated Availability	-		Date provided at sampl request.	
Change Ty	•									
	bly Site			Assembly	•					Materials
Design				Electrical						al Specification
Test S	Bump Site			Wafer Bu		ing/Labeling		H	Test Proce	ess mp Process
	Fab Site		H	Wafer Fa				H	Wafer Fab	
	Tub Dice			Part num					110101102	7110000
				•		Details	'			
design char	ation is to inge is a die	nform of enhance	men	t which rer	moves	s the 12V cap				ily of devices. The √ capacitors.
	rent				Nev					1
	Revision	Datashe		umber	1	Revision			Number	-
А		SNOSAT	ТП		В		SNOSA	1 11		J
	TEXAS INSTRUMENTS SNOSATII - OCTOBER 2006 - REVISED OCTOBER 2017 LMV84x CMOS Input, RRIO, Low Power, Wide Supply Range, 4.5-MHz Operational Amplifiers									
4 Revision		vious revisio	ns ma	y differ from pa	age nur	mbers in the curre	nt version.			
Changes from	n Revision H (July 2016) to	Revi	sion I					P	age
• Changed ESD Ratings table footnotes to TI standard 4 • Changed Thermal Information table 4 • Changed Phase Margin vs C _L graphic 13 • Changed Overshoot vs C _L graphic 14							4 . 13			
Reason for Improved p	r Change:	ds/symlin	nk/Im	nv841.pdf		nks provided		ositi	ive / negat	tive):
None	Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):									
ivone										

Changes to product identification resulting from this PCN:

Die Rev designator will change as shown in the table and sample label below:

Current	New
Die Rev [2P]	Die Rev [2P]
Α	В

Sample product shipping label (not actual product label)



Product Affected:

LMV841MG/NOPB	LMV842MAX/NOPB	LMV844MA/NOPB	LMV844MTX/NOPB
LMV841MGX/NOPB	LMV842MM/NOPB	LMV844MAX/NOPB	
LMV842MA/NOPB	LMV842MMX/NOPB	LMV844MT/NOPB	

Qualification Report

LMV841 - Grade 1 All Layer Change, Elimination of 12V Capacitor Approve Date 08-Nov-2017

Product Attributes

Attributes	Qual Device: LMV841MG/NOPB Rev B, New Design (all Layer change)	Qual Device: LMV841QMG/NOPB Rev A (Old Design)	QBS Product Reference: LMV844MA New Design (all Layer change)	QBS Package Reference: LM94022MG	QBS Process Reference: LMP8601QMA
Assembly Site	TIEM-MALACCA	TIEM-MALACCA	TIEM- MALACCA	TIEM- MALACCA	TIEM- MALACCA
Package Family	SC70	SC70	SOIC	SC70	SOIC
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	MFAB	MFAB	MFAB	MFAB	MFAB
Wafer Fab Process	VIP50CLZ3	VIP50CLZ3	VIP50CLZ3	CMOS7	VIP50CLZ3

⁻ QBS: Qual By Similarity

⁻ Qual Device LMV841MG/NOPB is qualified at LEVEL1-260CG

Qualification Results Data Displayed as: Number of lots / Total sample size / Total failed

Туре	Test Name / Condition	Duration	Qual Device: LMV841MG/NOP B Rev B, New Design (all Layer change)	Qual Device: LMV841QMG/NOP B Rev A (Old Design)	QBS Product Reference: LMV844M A New Design (all Layer change)	QBS Package Reference: LM94022M G	QBS Process Reference: LMP8601QM A
AC	Autoclave 121C	96 Hours	-	1/77/0	-	3/231/0	-
ED	Electrical Characterizati on	Per Datasheet Parameter s	1/30/0	•	-	Pass	-
HAST	Biased HAST, 130C/85%RH	96 Hours	-	3/231/0	=	-	-
ТНВТ	Temperature, Humidity Bias Test 85°C, 85%RH	1000 Hours	-	-	-	3/231/0	-
HBM	ESD - HBM	2500 V	1/3/0	-	-	-	-
CDM	ESD - CDM	1000 V	1/3/0	-	-	-	-
HTOL	Life Test, 125C	1000 Hours	1/77/0	-	1/77/0	-	3/231/0
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	1/45/0	-	3/231/0	
LU	Latch-up	(per JESD78)	1/6/0	-	-	-	
тс	Temperature Cycle, - 65/150C	500 Cycles	1/77/0	1/77/0	- C 1 TPI 101	3/231/0	1. 11

- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable The following are equivalent HTOL options based on an activation energy of 0.7eV: 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours
- The following are equivalent HTSL options based on an activation energy of 0.7eV: 150C/1k Hours, and 170C/420 Hours
- The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles Quality and Environmental data is available at TI's external Web site: http://www.ti.com/

Green/Pb-free Status:

Qualified Pb-Free(SMT) and Green

LMV842 - All Layer Change, Elimination of 12V Capacitor **Approve Date 10-Nov-2017**

Product Attributes

Attributes	Qual Device: LMV842MA/NOPB Rev B, New Design (all Layer change)	QBS Process Package Reference: LMP8601QMAX	
Assembly Site	TIEM-MALACCA	TIEM-MALACCA	
Package Family	SOIC	SOIC	
Flammability Rating	UL 94 V-0	UL 94 V-0	
Wafer Fab Supplier	MFAB	MFAB	
Wafer Fab Process	VIP50CLZ3	VIP50CLZ3	

- QBS: Qual By Similarity
- Qual Device LMV842MA/NOPB is qualified at LEVEL1-260CG

Qualification Results Data Displayed as: Number of lots / Total sample size / Total failed

Туре	Test Name / Condition	Duration	Qual Device: LMV842MA/NOPB Rev B, New Design (all Layer change)	QBS Process Package Reference: LMP8601QMA
AC	Autoclave 121C	96 Hours	-	3/231/0
ED	Electrical Characterization	Per Datasheet Parameters	3/90/0	-
HAST	Biased HAST, 130C/85%RH	96 Hours	-	3/231/0
ТНВТ	Temperature, Humidity Bias Test 85°C, 85%RH	1000 Hours	-	-
HBM	ESD - HBM	2500 V	1/3/0	-
CDM	ESD - CDM	1000 V	1/3/0	-
HTOL	Life Test, 125C	1000 Hours	3/231/0	3/231/0
ELFR	Early Life Failure Rate, 125C	48 Hours	3/2400/0	-
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	1/77/0
LU	Latch-up	(per JESD78)	1/6/0	-
TC	Temperature Cycle, -65/150C	500 Cycles	-	3/231/0

- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable
- The following are equivalent HTOL options based on an activation energy of 0.7eV: 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours
- The following are equivalent HTSL options based on an activation energy of 0.7eV: 150C/1k Hours, and 170C/420 Hours
- The following are equivalent Temp Cycle options per JESD47: -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: http://www.ti.com/

Green/Pb-free Status:

Qualified Pb-Free(SMT) and Green

LMV844 All Layer Change, Elimination of 12V Capacitor Approve Date 10-Nov-2017

Product Attributes

Attributes	Qual Device: LMV844MA/NOPB Rev B, New Design (all Layer change)	QBS Product Reference: LMV842QMA/NOPB	QBS Process Package Reference: LMP8601QMAX
Assembly Site	TIEM-MALACCA	TIEM-MALACCA	TIEM-MALACCA
Package Family	SOIC	SOIC	SOIC
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	MFAB	MFAB	MFAB
Wafer Fab Process	VIP50CLZ3	VIP50CLZ3	VIP50CLZ3

⁻ QBS: Qual By Similarity

Qualification Results Data Displayed as: Number of lots / Total sample size / Total failed

Туре	Test Name / Condition	Duration	Qual Device: LMV844MA/NOPB Rev B, New Design (all Layer change)	QBS Product Reference: LMV842QMA/NOPB	QBS Process Package Reference: LMP8601QMA
AC	Autoclave 121C	96 Hours	-	-	3/231/0
ED	Electrical Characterization	Per Datasheet Parameters	3/90/0	-	-
HAST	Biased HAST, 130C/85%RH	96 Hours	=	=	3/231/0
ТНВТ	Temperature, Humidity Bias Test 85°C, 85%RH	1000 Hours	-	-	-
HBM	ESD - HBM	2500 V	1/3/0	-	-
CDM	ESD - CDM	1000 V	1/3/0	-	-
HTOL	Life Test, 125C	1000 Hours	2/154/0	3/231/0	3/231/0
ELFR	Early Life Failure Rate, 125C	48 Hours	-	3/2400/0	-
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	-	1/77/0
LU	Latch-up	(per JESD78)	1/6/0	-	-
TC	Temperature Cycle, -65/150C	500 Cycles	-	-	3/231/0

⁻ Qual Device LMV844MAX/NOPB is qualified at LEVEL1-260CG

- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable The following are equivalent HTOL options based on an activation energy of 0.7eV: 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours
- The following are equivalent HTSL options based on an activation energy of 0.7eV: 150C/1k Hours, and 170C/420 Hours

- The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles Quality and Environmental data is available at TI's external Web site: http://www.ti.com/

Green/Pb-free Status:

Qualified Pb-Free(SMT) and Green

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

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