1	2	3	4	

● FID1 FID2 FID3

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TIDA-050053
PCB Number:
PCB Rev:





	Variant/Label Table			
	Variant	Label Text		
	001	TIDA-050053		

LBL1 PCB Label THT-14-423-10

ZZ1 Label Assembly Note This Assembly Note is for PCB labels only

ZZ2 Assembly Note These assemblies are ESD sensitive, ESD precautions shall be observed.

ZZ3
Assembly Note
These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.

1

ZZ4 Assembly Note These assemblies must comply with workmanship standards IPC-A-610 Class 2., unless otherwise specified.

Orderable:	
TID #:	TIDA-0500
Number:	
	Not in versi
Drawn By:	_ucia Gao
Engineer:	

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		purpose, or will operate in an implementation. Texas Instruments and/or	
		ign implementation to confirm the system functionality for your application	
	2		

С

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Designed for: Project Title: Sheet Title: Assembly Variant: 001 File: TIDA-050053_Hardware.SchDoc Contact: Mod. Date: 10/18/2021 Texas Instruments 053 Rev: sion control Sheet: 1 of 2 Size: B http://www.ti.com © Texas Instruments 5 6

1		•	4		6
	2	3	*	5	
A					A
VIN = 8V - 16V				TP8 TP	5
	TP3 VIN			S- GND	,
		C13 U1			1 UOUT = -12V
I IP2	TP4	VIN BST 6		C2 C3 C4 C5 GND 22uF 22uF 22uF 100nF	л
Q S-	TP4 GND 10μF 10μF 10μF 100nF	<u>Vo 100nF EN 2 EN SW 5</u>		22uF 22uF 22uF 100nF R2 49.9	
	EN TP12	SS 7 SS FB 8	FB O TP9 SW	↓ S+ _	-O _{TP6}
			SW	-Vo TP7 -VOUT	, 0
в	R7 R9 ≹45.3k ≹49.9k ~	TPS62933DRLR			в
	49.5k R10 1 Q1 10k ZXTP19100CFFTA		R3 53.6k	TP10 O Bode	
	n n n n n n n n n n n n n n n n n n n		R4 C11 S3.0K 10.2k C11 R5	Bode	
	→ ^{U2} R11	C10 33nF JP1	47pF		
	LM431BCM3 63.4k	R6			
	R8 ₹24.9k	₹0	-Vo -Vo		
		_			
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	<u> </u>	V -Vo			
	GND				
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		●TP13 ●TP14 ● GND GND	TP15 OTP16 GND -VOUT		Ŭ
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				Orderable: Designed for:	Mod. Date: 10/22/2021
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	Texas Instruments and/or its licensors do warrant that this design will meet the spec	not warrant the accuracy or completeness of this specification or an ifications, will be suitable for your application or fit for any particular	y information contained therein. Texas Instruments and/or its licensors do not purpose, or will operate in an implementation. Texas Instruments and/or its sign implementation to confirm the system functionality for your application.	t SVN Rev: Not in version control Assembly Variant: 001 Drawn By:Lucia Gao File: TIDA-050053.SchDc	Sheet: 2 of 2 INSTRUMENTS bc Size: B http://www.ti.com
				Engineer: Contact:	© Texas Instruments
1	2	3	4	5	6

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