

Laboratory Analysis Report

Report Number: 1000-33725

Date: 2022-02-19

Customer Internal P/N: NOT AVAILABLE

Manufacturer: TEXAS INSTRUMENTS

Manufacturer Part Number: TPS3823-50DBVR

Quantity: 1,000 Date Code: 2141+5

Lot Code: NOT AVAILABLE

Part Description: PROCESSOR SUPERVISOR 4.55V 1 ACTIVE LOW/PUSH-PULL AUTOMOTIVE 5-PIN SOT-23 T/R



GB/T19001-2016/ISO9001:2015

Global ETS China

86-0755-829-11501

808 Room T1 Tower HYCity FuAn Road PingHu Street LongGang District Shenzhen China

www.gets-china.com



	Analysis Report - 1000-33725								
	Part Number: TPS3823-50DBVR		Customer P/N:	NOT AVAILABLE					
	Manufacturer: TEXAS INSTRUMENTS		Devices Received:	1,000					
Date Code: 2141+5		Lot Code:	NOT AVAILABLE						

1.0.0	Summary Of Inspection Results Freedom D Testing Protocol					
	Test-Process Operation	Quantity Inspected	Pass	Fail	N/A	

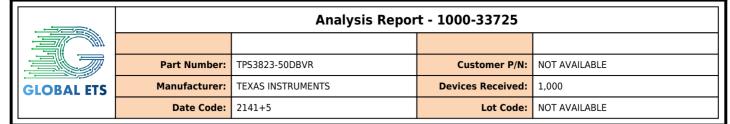
Equipment Used

	Test-Process Operation	Quantity Inspected	Pass	Fail	N/A	Comments / Observations			
1.1.0	Documentation and Packaging - All Devic	es (SAE AS6	081, 4.2.0	5.4.1) (N	on-de	structive)			
1.1.1	1.1.1 Condition Observed 1,000 1,000 0 Total 1000pcs was received in tape format.					Total 1000pcs was received in tape format.			
1.2.0	External Visual Inspection - 10 Devices (S	AE AS6081 a	and MIL-S	TD-883,	Metho	od 2009.9) (Non-destructive)			
1.2.1	Condition Observed	10	10	0		No anomalies were found. Devices passed visual inspection.			
1.3.0	.0 Package Inspection - 1 Device (SAE AS6081 and MIL-STD-883, Method 2009.9) (Non-destructive)								
1.3.1	Dimensions	1	1	0		Processor Supervisor 4.55V 1 Active Low/Push-Pull Automotive 5-Pin SOT-23 T/R			
1.4.0	4.0 Re-Marking Testing - Permanency - 1 Device								
1.4.1	Permanency (Non-destructive) (SAE AS6081 4.2.6.4.3A)	1	1	0		Marking permanency test was performed on 1 device. No marking was removed during this process. The device passed permanency testing.			
1.5.0	Re-Surfacing Testing - Dynasolve 750 - 1 Device								
1.5.1	Heat Solvent (Destructive) Dynasolve 750	1	1	0		Heated Solvent Testing was performed on 1 device using Dynosolve 750 solution. Material was soften during this process however no evidence of a secondary coating was observed. Device passed Heated Solvent testing.			
1.6.0	Delid/Decapsulation Internal Analysis - 1	Device (AS60	081 4.2.6	.4.6) or	(MIL-S	TD-883, Method 2014) (Destructive)			
1.6.1	Die Verification	1	1	0		Internal inspection was performed on 1 device. Device revealed Texas Instruments logo with 1997 copyright. Die marking 94741WM50B was also found.			
1.7.0	X-Ray Inspection - 10 Devices (SAE AS608	31 4.2.6.4.4	and MIL-S	STD-883,	Meth	od 2012.7)(Non-destructive)			
1.7.1	Die Construction	10	10	0		10 samples were X-ray. Die construction and size are all the same. No anomalies were found.			
1.8.0	XRF Inspection - 1 Device (SAE AS6081 4.	2.6.4.5)(Nor	n-destruc	tive)					
1.8.1	RoHS Compliant	1	1	0		XRF were performed on 1 sample. No restricted elements were detected. Devices meet EU RoHS Directive 2011/65/EU Annex. Devices confirmed to be RoHS complaint.			
1.9.0	Electrical Test - 10 Devices (MIL-STD-883	and Manufa	cturer Sp	ecification	on)				
1.9.1	DC Function Test TA = 25C	10	0	10		TPS3823-50DBVR: Processor Supervisor 4.55V 1 Active Low/Push-Pull Automotive 5-Pin SOT-23 T/R Tested 10 samples, failed 10 samples for VIT- <4.49v min (range = 4.49v			

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min,4.55v typ,4.64v max)

DIGITAL OSCILLOSCOPE Asset Tag: 3 Calibration Due Date: 2023-02-09 Cert: HK0918441
POWER SUPPLY Asset Tag: 13 Calibration Due Date: 2023-02-09 Cert: HK0918447
MULTIMETER Asset Tag: 14 Calibration Due Date: 2023-02-09 Cert: HK0918448



2.0.0 | Documentation and Packaging (SAE AS6081, 4.2.6.4.1) (Non-destructive)

Results Summary

Total 1000pcs was received in tape format.

	Criteria	Acceptable	Suspect	Not Acceptable	N/A	Comments / Observations
2.1.0	Incoming Conditions					
2.1.1	ESD Protection	X				
2.1.2	Poor Syntax or Alterations				Х	
2.1.3	Correct MSL Packaging	Х				Moisture Sensitivity Level (MSL) 1 (Unlimited)
2.1.4	Quantity Match Document	Х				1000pcs
2.1.5	Box Damaged				Х	
2.1.6	Type of Package	х				Tape format

Images For Documentation and Packaging .





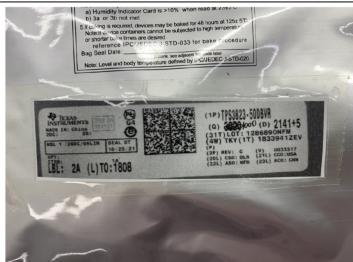


Figure 2. LABEL

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	Analysis Report - 1000-33725						
illi							
	Part Number:	TPS3823-50DBVR	Customer P/N:	NOT AVAILABLE			
L ETS	TEVAS INSTRUMENTS		Devices Received:	1,000			
	Date Code:	2141+5	Lot Code:	NOT AVAILABLE			



Figure 3. RECEIVED 1

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Analysis Report - 1000-33725								
Part Number:	TPS3823-50DBVR	Customer P/N:	NOT AVAILABLE					
Manufacturer: TEXAS INSTRUMENTS		Devices Received:	1,000					
Date Code: 2141+5		Lot Code:	NOT AVAILABLE					

3.0.0 External Visual Inspection (SAE AS6081 and MIL-STD-883, Method 2009.9) (Non-destructive)

	Criteria	Acceptable	Suspect	Not Acceptable	N/A	Comments / Observations
3.1.0	External Conditions					
3.1.1	Markings - Top	X				
3.1.2	Pin 1 Cavity - Top	X				
3.1.3	Construction Quality	Х				Devices are in new condition
3.2.0	3.2.0 Lead / BGA Conditions					
3.2.1	Lead Alignment	X				Acceptable
3.2.2	Lead Formation / Scratches	X				Acceptable
3.2.3	Lead Missing Pins	X				None were observed
3.2.4	Lead Plating Composition	Х				Acceptable
3.2.5	Lead Excessive or Uneven Plating	Х				Acceptable
3.2.6	Lead Discoloration, Dirt or Residue	х				Acceptable
3.2.7	Lead Oxidation	Х				Acceptable

Images For External Visual Inspection.



Figure 4. TOP



Figure 5. BOTTOM

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Analysis Report - 1000-33725								
Part Number:	TPS3823-50DBVR	Customer P/N:	NOT AVAILABLE					
Manufacturer: TEXAS INSTRUMENTS		Devices Received:	1,000					
Date Code:	2141+5	Lot Code:	NOT AVAILABLE					



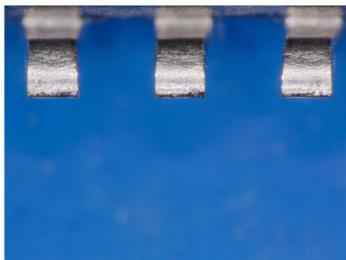


Figure 6. TOP LEADS

Figure 7. BOTTOM LEADS

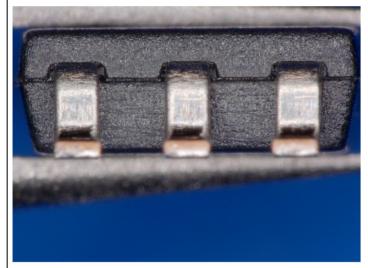




Figure 8. SIDE

Figure 9. LEADS END

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Р	re	n	а	re	d

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by:

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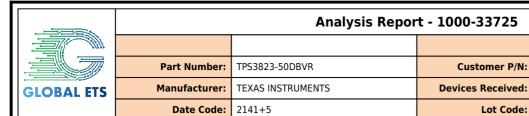
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4.0.0	Device	Package
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Results Summary

Length = 3.00mm (2.75mm min - 3.05mm max) Pass Width = 2.80 mm (2.6mm min - 3.0 mm max) - Pass Thickness = 1.12mm (0.9mm min -1.45 mm max) - Pass

	Criteria	Acceptable	Suspect	Not Acceptable	N/A	Comments / Observations
4.1.0	4.1.0 Package Dimensions					
4.1.1	Dimensions	х				

Images For Device Package.







NOT AVAILABLE

NOT AVAILABLE

1,000

Lot Code:

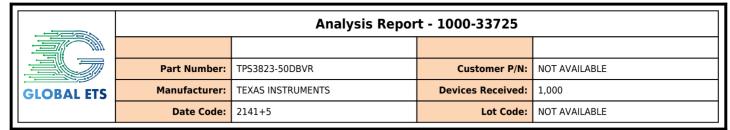
Figure 10. LENGTH Figure 11. WIDTH Figure 12. THICKNESS

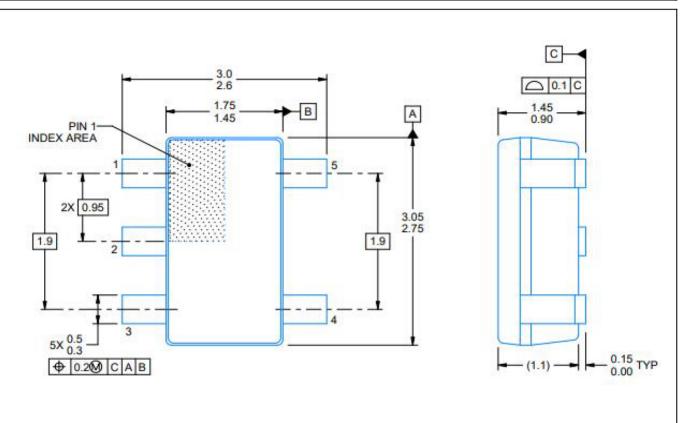
Images For Device Package. (Continued From Previous Page)

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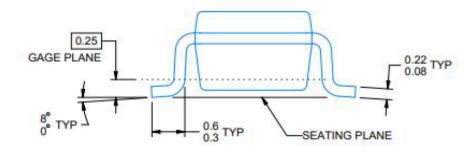


Figure 13. DIMENSION

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Analysis Report - 1000-33725						
	Part Number:	TPS3823-50DBVR	Customer P/N:	NOT AVAILABLE		
	Manufacturer:	TEXAS INSTRUMENTS	Devices Received:	1,000		
	Date Code:	2141+5	Lot Code:	NOT AVAILABLE		

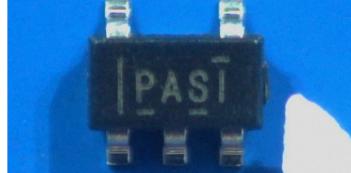
5.0.0 Remarking and Resurfacing (SAE AS6081 and JESD22-B107C)

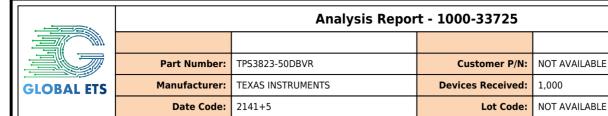
	Criteria	Acceptable	Suspect	Not Acceptable	N/A	Comments / Observations
5.1.0	Re-Surfacing / Re-Marking Testing					
5.1.1	5.1.1 Solvent Test for Re-marking - Permanency (Non-destructive)					Marking permanency test was performed on 1 device. No marking was removed during this process. The device passed permanency testing.
5.1.2	Solvent Test for Re-Surfacing - Heat Solvent (Destructive) Dynasolve 750	x				Heated Solvent Testing was performed on 1 device using Dynosolve 750 solution. No secondary coating was removed during this process. The device passed Heated Solvent testing.

Images For Remarking and Resurfacing .









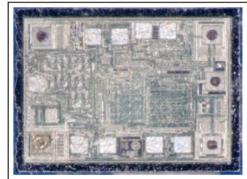
6.0.0 Delid/Decapsulation Internal Analysis (AS6081 4.2.6.4.6) or (MIL-STD-883, Method 2014) (Destructive)

Results Summary

Internal inspection was performed on 1 device. Device revealed Texas Instruments logo with 1997 copyright. Die marking 94741WM50B was also found.

	Criteria	Acceptable	Suspect	Not Acceptable	N/A	Comments / Observations
6.1.0	1.0 Internal Visual Inspection					
6.1.1	6.1.1 Die Topography					
6.1.2	Die Markings	Х				

Images For Delid/Decapsulation Internal Analysis.



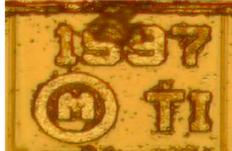




Figure 16. DIE Figure 18. DIE MARKING Figure 17. DIE LOGO

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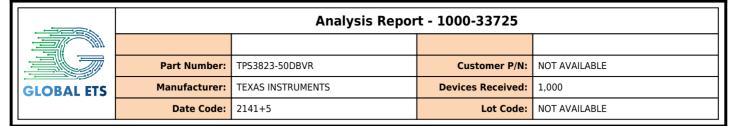
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7.0.0 X-Ray Analysis (SAE AS6081 4.2.6.4.4 and MIL-STD-883, Method 2012.7)(Non-destructive)

Results Summary

10 samples were X-ray. Die construction and size are all the same. No anomalies were found.

	Criteria	Acceptable	Suspect	Not Acceptable	N/A	Comments / Observations
7.1.0	X-Ray Analysis					
7.1.1	Die Construction	X				
7.1.2	Wire Bond Layout/Quality	X				
7.1.3	Lead Conditions	Х				

Images For X-Ray Analysis.

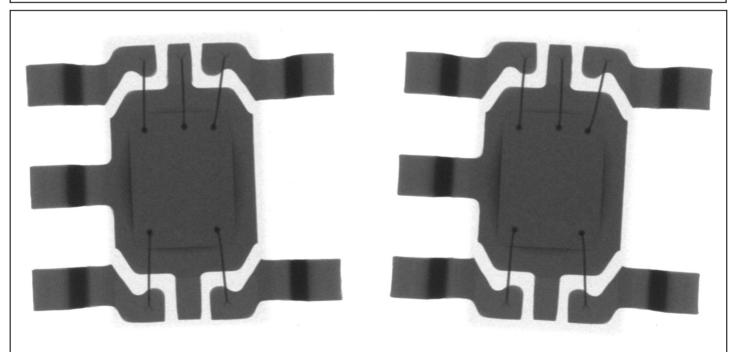


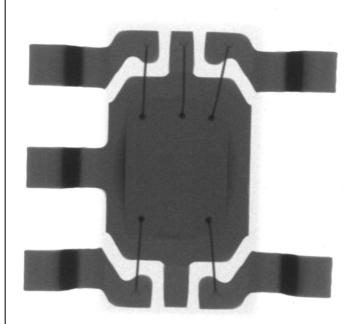
Figure 19. XRAY VIEW 1

Figure 20. XRAY VIEW 2

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		Analysis Repor	t - 1000-33725	
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	Manufacturer:	TEXAS INSTRUMENTS	Devices Received:	1,000
	Date Code:	2141+5	Lot Code:	NOT AVAILABLE



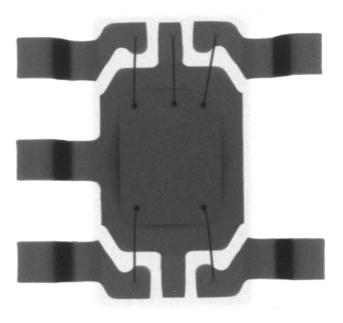
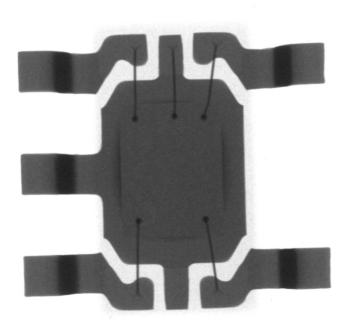


Figure 21. XRAY VIEW 3

Figure 22. XRAY VIEW 4



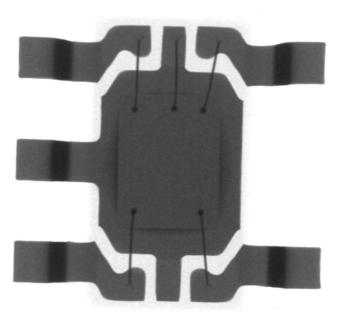


Figure 23. XRAY VIEW 5

Figure 24. XRAY VIEW 6

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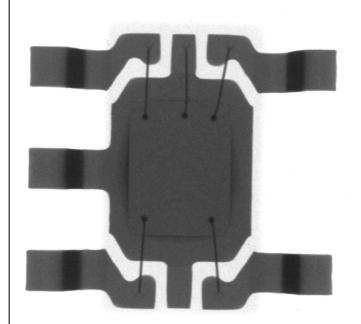
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	Analysis Report - 1000-33725							
	Part Number:	TPS3823-50DBVR	Customer P/N:	NOT AVAILABLE				
GLOBAL ETS	DBAL ETS Manufacturer: TEXAS INSTRUMENTS	TEXAS INSTRUMENTS	Devices Received:	1,000				
	Date Code:	2141+5	Lot Code:	NOT AVAILABLE				



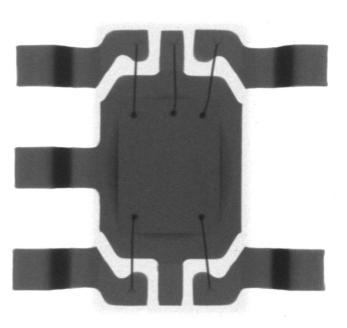
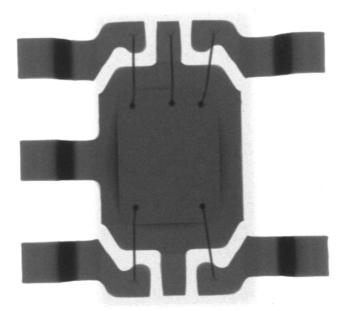
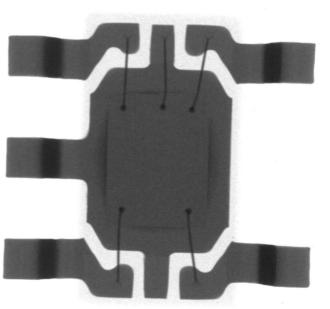


Figure 25. XRAY VIEW 7

Figure 26. XRAY VIEW 8





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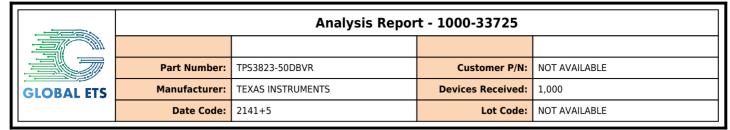
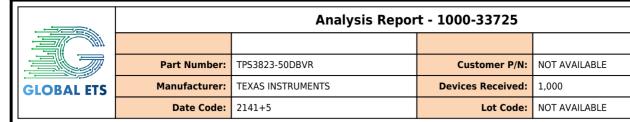


Figure 27. XRAY VIEW 9

Figure 28. XRAY VIEW 10

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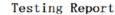
8.0.0 XRF Analysis (SAE AS6081 4.2.6.4.5)(Non-destructive)

Results Summary

XRF were performed on 1 sample. No restricted elements were detected. Devices meet EU RoHS Directive 2011/65/EU Annex. Devices confirmed to be RoHS complaint.

	Criteria	Acceptable	Suspect	Not Acceptable	N/A	Comments / Observations
8.1.0	XRF Analysis					
8.1.1	RoHS Compliance	Х				

Images For XRF Analysis.

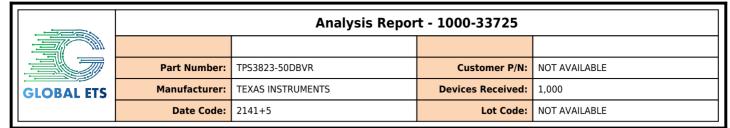




It	em	Testing Res	sult(ppm)	MDL	Limitation	Judgement
Lead	l(Pb)	N. D.		5	1000	Passed
Cadmi	um (Cd)	N. D.		5	100	Passed
Mercu	ry(Hg)	N. D.		5	1000	Passed
Chromi	um(Cr)	N. D.		5	1000	Passed
Note:		Won-Detected, WDL. me g/kg-each of sample,			un, B.C. mean Beyond (Calibration,
45 -		Cu:Ka				
30-						
16-	Стята	Ji:Ka Sa	Mo:Ka-C	Ag:Ka Cd:K@alto	e -	
0 1		13.4			27.0	40.7keV
0.2 0.1 0.1	5.4	не	Pb	0.6 - 1 0.3 - 0.0 -	23.3 cps 1.9 1.0	Sn:Ka2 28.3 24.9
	Approval by:		Review by:		Prepare by:	Administrator

Figure 29. XRF 1

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9.0.0 | Electrical Test (MIL-STD-883 and Manufacturer Specification)

Results Summary

TPS3823-50DBVR: Processor Supervisor 4.55V 1 Active Low/Push-Pull Automotive 5-Pin SOT-23 T/R Tested 10 samples, failed 10 samples for VIT- <4.49v min (range = 4.49v min, 4.55v typ, 4.64v max)

	Test-Process Operation	Quantity Inspected	Pass	Fail	N/A	Comments / Observations		
9.1.0	Electrical Test (MIL-STD-883 and Manufac	d Manufacturer Specification)						
9.1.1	9.1.1 DC Function Test TA = 25C 10 0 10							
	Equipment Used DIGITAL OSCILLOSCOPE Asset Tag: 3 Calibration Due Date: 2023-02-09 Cert: HK0918441 POWER SUPPLY Asset Tag: 13 Calibration Due Date: 2023-02-09 Cert: HK0918447 MULTIMETER Asset Tag: 14 Calibration Due Date: 2023-02-09 Cert: HK0918448							

Images For Electrical Test.

TPS3820, TPS3823, TPS3823A, TPS3828: DBV PACKAGE 5-Pin SOT-23 Top View

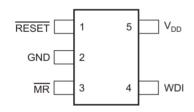


Figure 30. DEVICE PIN OUT

7.5 Electrical Characteristics

over operating junction temperature range -40°C to 85°C (unless otherwise noted)

PARAMETER		TEST CONDITIONS	MIN	TYP	MAX	UNIT		
V _{OH}	High-level output voltage	RESET	TPS382x-50	V _{DD} = V _{IT} + 0.2 V I _{OH} = -120 μA	V _{DD} - 1.5 V			v
V _{OL}	Low-level output voltage	RESET	TPS382x-50	V _{DD} = V _{IT-} - 0.2 V, I _{OL} = 3 mA			0.4	٧
V _{IT} - Negative-going input threshold voltage ⁽²⁾		TPS382x-50	T _A = 0°C to 85°C	4.49	4.55	4.64	v	
		TPS382x-25		2.20	2.25	2.30	٧ ا	
		TPS382x-50	T _A = -40°C to 85°C	4.46	4.55	4.64		
			TPS382x-25					
V _{bys} Hysteresis at V _{CO} input		TPS382x-30			30			
		TPS382x-33 TPS382xA-33			50		mV	
		TPS382x-50			50			
I _{IH(AV)} Average high-level input current _{IL(AV)} Average low-level input current WDI		WDI	WDI = V _{DD} , time average (DC = 88%)		120			
		WDI	WDI = 0.3 V, V _{DD} = 5.5 V time average (DC = 12%)		-15		μA	
	trat to all to a to a second		WDI	WDI = V _{DD}		140	190	
I _{IH} High-level input current		MR	MR = V _{DD} × 0.7, V _{DD} = 5.5 V		-40	-60	μA	
	Low-level input current		WDI	WDI = 0.3 V, V _{DD} = 5.5 V		140	190	μА
l _{IL}	Low-level input current		MR	MR = 0.3 V, V _{DD} = 5.5 V		-110	-160	μA

Figure 31. ELECTRICAL CHARACTERISTICS

VIT- = 4.49v min, 4.55v typ, 4.64v max

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	Part Number:	TPS3823-50DBVR	Customer P/N:	NOT AVAILABLE
GLOBAL ETS	Manufacturer:	TEXAS INSTRUMENTS	Devices Received:	1,000
	Date Code:	2141+5	Lot Code:	NOT AVAILABLE

Table	1.	Function	Table	

INP	UTS	OUTPUTS			
MR (1)	V _{DD} > V _{IT}	RESET	RESET ⁽²⁾		
L	0	L	Н		
L	1	L	н		
Н	0	L	н		
Н	1	Н	L		

(1) TPS3820/3/5/8 (2) TPS3824/5

Figure 32. FUNCTION TABLE

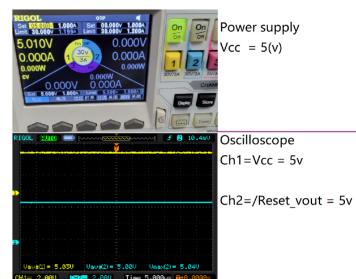


Figure 33. RESET VOUT = 5V (HIGH LOGIC) AT VCC = 5V

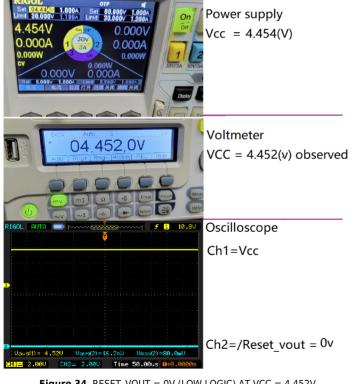


Figure 34. RESET_VOUT = 0V (LOW LOGIC) AT VCC = 4.452V

From datasheet									
Vin = 0V Min to 5.5V Max.									
Negative-going VIT- = 4.49v min, 4.55v typ, 4.64v max									
	(v)	(v)							
Qty.	/Reset_vout	VCC_input (VIT-)							
1	0	4.452							
2	0	4.371							
3	0	4.421							
4	0	4.457							
5	0	4.356							
6	0	4.292							
7	0	4.393							
8	0	4.347							
9	0	4.416							
10	0	4453							
Average	0	4.38944444							
PASS		0							
FAIL		10(pcs)							

P/N: TPS3823-50DBVR

Figure 35. TEST DATA

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Analysis Report - 1000-33725				
Part Number:	TPS3823-50DBVR	Customer P/N:	NOT AVAILABLE	
Manufacturer:	TEXAS INSTRUMENTS	Devices Received:	1,000	
Date Code:	2141+5	Lot Code:	NOT AVAILABLE	

VIT- = 4.452v observed VIT- range = 4.49v min, 4.55v typ, 4.64v max VIT- Average = 4.389v observed VIT- range = 4.49v min, 4.55v typ, 4.64v max 10 samples failed!

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