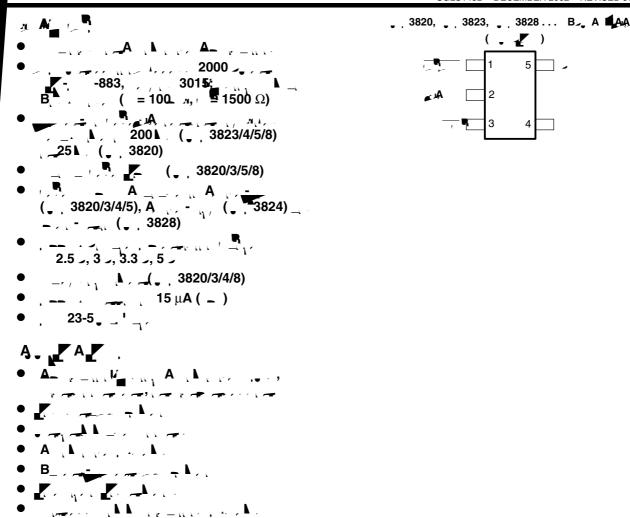
# TPS3820-xx-Q1, TPS3823-xx-Q1, TPS3824-xx-Q1, TPS3825-xx-Q1, TPS3828-xx-Q1 PROCESSOR SUPERVISORY CIRCUITS

SGLS143B - DECEMBER 2002 - REVISED JUNE 2008



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The TPS382x family of supervisors provides circuit initialization and timing supervision, primarily for DSP and processor-based systems.



Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.



# TPS3820-xx-Q1, TPS3823-xx-Q1, TPS3824-xx-Q1, TPS3825-xx-Q1, TPS3828-xx-Q1 PROCESSOR SUPERVISORY CIRCUITS SGLS143B - DECEMBER 2002 - REVISED JUNE 2008 2POST OFFICE BOX86553038 DALLAS, TEXAS 77205tdageriptiperv(iscontinueid)Dall/inDpande keep stebset tessil outrepas by page 1 pag

# TPS3820-xx-Q1, TPS3823-xx-Q1, TPS3824-xx-Q1, TPS3825-xx-Q1, TPS3828-xx-Q1 PROCESSOR SUPERVISORY CIRCUITS

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# TPS3820-xx-Q1, TPS3823-xx-Q1, TPS3824-xx-Q1, TPS3825-xx-Q1, TPS3828-xx-Q1 PROCESSOR SUPERVISORY CIRCUITS

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# TPS3820-xx-Q1, TPS3823-xx-Q1, TPS3824-xx-Q1, TPS3825-xx-Q1, TPS3828-xx-Q1 PROCESSOR SUPERVISORY CIRCUITS

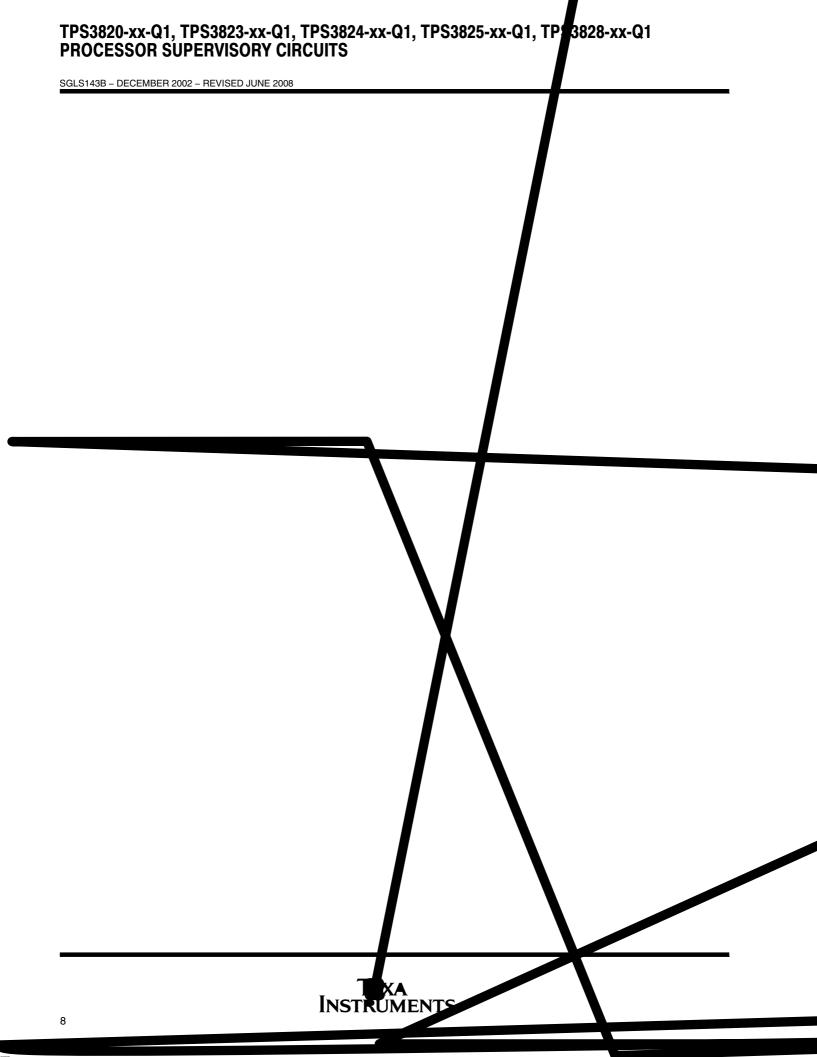
SGLS143B - DECEMBER 2002	- REVISED JUNE 2008		

## TPS3820-xx-Q1, TPS3823-xx-Q1, TPS3824-xx-Q1, TPS3825-xx-Q PROCESSOR SUPER\

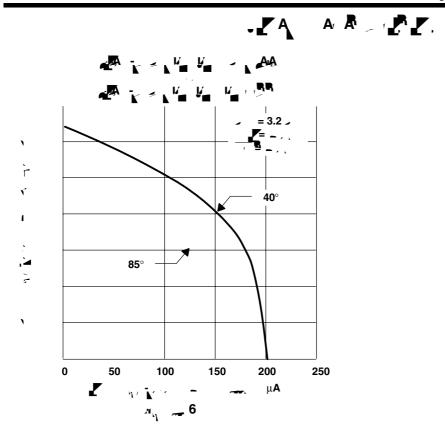
8828-xx-Q1 CIRCUITS

SGLS143B - DECEMBER

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SGLS143B - DECEMBER 2002 - REVISED JUNE 2008





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### **PACKAGE OPTION ADDENDUM**

24-Jan-2013

Orderable Device	Status	Package Type	_	Pins	Package Qty	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Top-Side Markings	Samples
	(1)		Drawing			(2)		(3)		(4)	
TPS3823-50QDBVRQ1	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	PASQ	Samples
TPS3824-25QDBVRQ1	OBSOLETE	SOT-23	DBV	5		TBD	Call TI	Call TI	-40 to 125		
TPS3824-30QDBVRQ1	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	PAUQ	Samples
TPS3824-33QDBVRQ1	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	PAVQ	Samples
TPS3824-50QDBVRQ1	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	PAWQ	Samples
TPS3825-33QDBVRQ1	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	PDGQ	





24-Jan-2013

(4) Only one of markings shown within the brackets will appear on the physical device.

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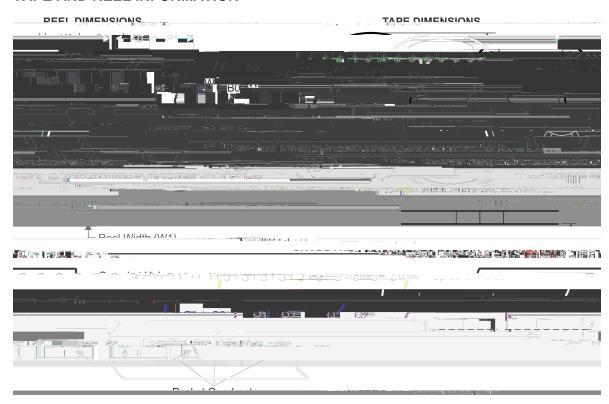
OTHER QUALIFIED VERSIONS OF TPS3820-33-Q1, TPS3820-50-Q1, TPS3823-25-Q1, TPS3823-30-Q1, TPS3823-33-Q1, TPS3823-50-Q1, TPS3824-25-Q1, TPS3824-30-Q1, TPS3824-30-Q1, TPS3824-50-Q1, TPS3825-33-Q1, TPS3825-33-Q1, TPS3825-30-Q1, TPS3825-

• Catalog: TPS3820-33, TPS3820-50, TPS3823-25, TPS3823-30, TPS3823-33, TPS3823-50, TPS3824-25, TPS3824-30, TPS3824-30, TPS3824-30, TPS3824-50, TPS3828-33, TPS3828-50

NOTE: Qualified Version Definitions:

Catalog - TI's standard catalog product

### TAPE AND REEL INFORMATION



2T28-33QDBVRG4Q1       SOT-23       DBV       5       3000       180.0       9.0       3.15       3.2       1.4       4.0       8.0         2U3820-50QDBVRG4Q1       SOT-23       DBV       5       3000       180.0       9.0       3.15       3.2       1.4       4.0       8.0         2U3823-25QDBVRG4Q1       SOT-23       DBV       5       3000       180.0       9.0       3.15       3.2       1.4       4.0       8.0         2U3823-30QDBVRG4Q1       SOT-23       DBV       5       3000       180.0       9.0       3.15       3.2       1.4       4.0       8.0         2U3823-33QDBVRG4Q1       SOT-23       DBV       5       3000       180.0       9.0       3.15       3.2       1.4       4.0       8.0         2U3823-50QDBVRG4Q1       SOT-23       DBV       5       3000       180.0       9.0       3.15       3.2       1.4       4.0       8.0	Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
2U3820-50QDBVRG4Q1     SOT-23     DBV     5     3000     180.0     9.0     3.15     3.2     1.4     4.0     8.0       2U3823-25QDBVRG4Q1     SOT-23     DBV     5     3000     180.0     9.0     3.15     3.2     1.4     4.0     8.0       2U3823-30QDBVRG4Q1     SOT-23     DBV     5     3000     180.0     9.0     3.15     3.2     1.4     4.0     8.0       2U3823-33QDBVRG4Q1     SOT-23     DBV     5     3000     180.0     9.0     3.15     3.2     1.4     4.0     8.0       2U3823-50QDBVRG4Q1     SOT-23     DBV     5     3000     180.0     9.0     3.15     3.2     1.4     4.0     8.0	2T25-50QFRG4Q1	SOT-23	DBV	5	3000	180.0	9.0	3.15	3.2	1.4	4.0	8.0	Q3
2U3823-25QDBVRG4Q1     SOT-23     DBV     5     3000     180.0     9.0     3.15     3.2     1.4     4.0     8.0       2U3823-30QDBVRG4Q1     SOT-23     DBV     5     3000     180.0     9.0     3.15     3.2     1.4     4.0     8.0       2U3823-33QDBVRG4Q1     SOT-23     DBV     5     3000     180.0     9.0     3.15     3.2     1.4     4.0     8.0       2U3823-50QDBVRG4Q1     SOT-23     DBV     5     3000     180.0     9.0     3.15     3.2     1.4     4.0     8.0	2T28-33QDBVRG4Q1	SOT-23	DBV	5	3000	180.0	9.0	3.15	3.2	1.4	4.0	8.0	Q3
2U3823-30QDBVRG4Q1     SOT-23     DBV     5     3000     180.0     9.0     3.15     3.2     1.4     4.0     8.0       2U3823-33QDBVRG4Q1     SOT-23     DBV     5     3000     180.0     9.0     3.15     3.2     1.4     4.0     8.0       2U3823-50QDBVRG4Q1     SOT-23     DBV     5     3000     180.0     9.0     3.15     3.2     1.4     4.0     8.0	2U3820-50QDBVRG4Q1	SOT-23	DBV	5	3000	180.0	9.0	3.15	3.2	1.4	4.0	8.0	Q3
2U3823-33QDBVRG4Q1     SOT-23     DBV     5     3000     180.0     9.0     3.15     3.2     1.4     4.0     8.0       2U3823-50QDBVRG4Q1     SOT-23     DBV     5     3000     180.0     9.0     3.15     3.2     1.4     4.0     8.0	2U3823-25QDBVRG4Q1	SOT-23	DBV	5	3000	180.0	9.0	3.15	3.2	1.4	4.0	8.0	Q3
2U3823-50QDBVRG4Q1 SOT-23 DBV 5 3000 180.0 9.0 3.15 3.2 1.4 4.0 8.0	2U3823-30QDBVRG4Q1	SOT-23	DBV	5	3000	180.0	9.0	3.15	3.2	1.4	4.0	8.0	Q3
	2U3823-33QDBVRG4Q1	SOT-23	DBV	5	3000	180.0	9.0	3.15	3.2	1.4	4.0	8.0	Q3
21/3824-250DBVPG401 SOT-23 DBV 5 3000 180.0 0.0 3.15 3.2 1.4 4.0 8.0	2U3823-50QDBVRG4Q1	SOT-23	DBV	5	3000	180.0	9.0	3.15	3.2	1.4	4.0	8.0	Q3
203024-2300001100-011 301-23   000   3   3000   100.0   3.0   3.13   3.2   1.4   4.0   6.0	2U3824-25QDBVRG4Q1	SOT-23	DBV	5	3000	180.0	9.0	3.15	3.2	1.4	4.0	8.0	Q3
2U3824-33QDBVRG4Q1 SOT-23 DBV 5 3000 180.0 9.0	2U3824-33QDBVRG4Q1	SOT-23	DBV	5	3000	180.0	9.0		<del></del>	='	='	='	

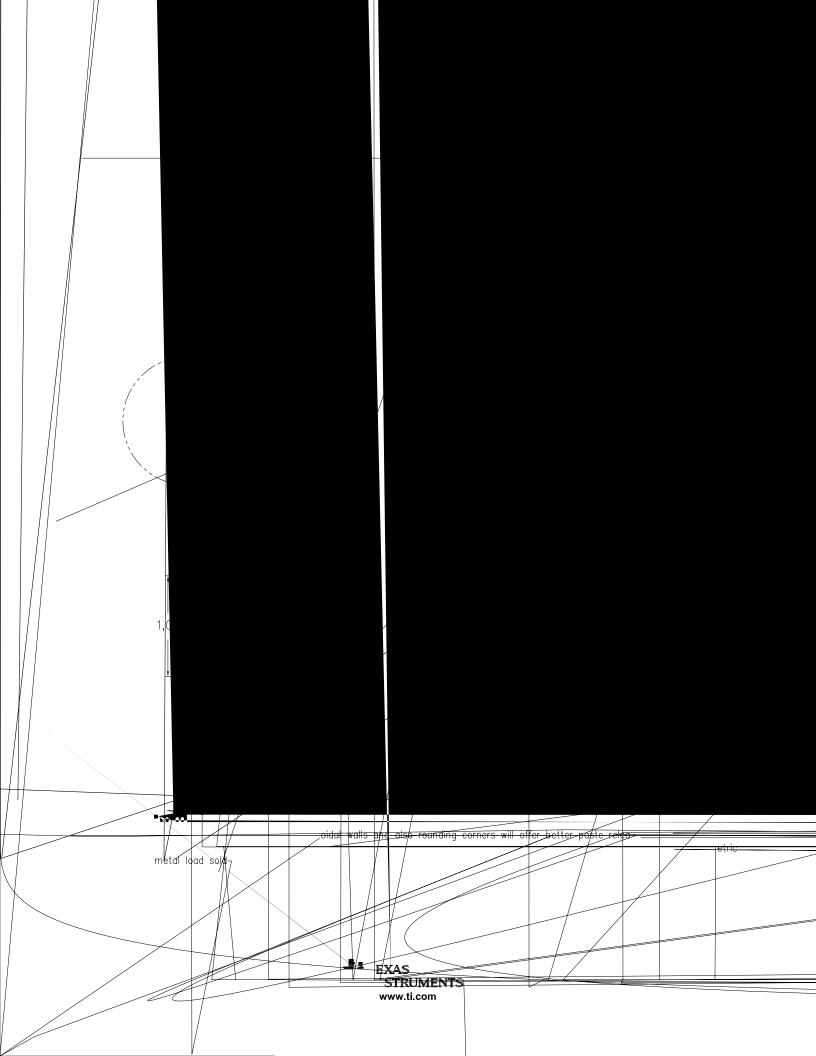
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### **PACKAGE MATERIALS INFORMATION**

www.ti.com 14-Mar-2013

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
2U3824-50QDBVRG4Q1	SOT-23	DBV	5	3000	182.0	182.0	20.0
2U3825-33QDBVRG4Q1	SOT-23	DBV	5	3000	182.0	182.0	20.0
TPS3820-33QDBVRQ1	SOT-23	DBV	5	3000	182.0	182.0	20.0
TPS3820-50DBVRQ1G4	SOT-23	DBV	5	3000	182.0	182.0	20.0
TPS3820-50QDBVRQ1	SOT-23	DBV	5	3000	182.0	182.0	20.0
TPS3823-25QDBVRQ1	SOT-23	DBV	5	3000	182.0	182.0	20.0
TPS3823-30QDBVRQ1	SOT-23	DBV	5	3000	182.0	182.0	20.0
TPS3823-33QDBVRQ1	SOT-23	DBV	5	3000	182.0	182.0	20.0
TPS3823-50QDBVRQ1	SOT-23	DBV	5	3000	182.0	182.0	20.0
TPS3824-30QDBVRQ1	SOT-23	DBV	5	3000	182.0	182.0	20.0
TPS3824-33QDBVRQ1	SOT-23	DBV	5	3000	182.0	182.0	20.0
TPS3824-50QDBVRQ1	SOT-23	DBV	5	3000	182.0	182.0	20.0
TPS3825-33QDBVRQ1	SOT-23	DBV	5	3000	182.0	182.0	20.0
TPS3825-50QDBVRQ1	SOT-23	DBV	5	3000	182.0	182.0	20.0
TPS3828-33QDBVRQ1	SOT-23	DBV	5	3000	182.0	182.0	20.0
TPS3828-50QDBVRG4Q	SOT-23	DBV	5	3000	182.0	182.0	20.0
TPS3828-50QDBVRQ1	SOT-23	DBV	5	3000	182.0	182.0	20.0



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