



TPS3800-xx TPS3801-xx **TPS3802-xx**

SLVS219E - AUGUST 1999-REVISED OCTOBER 2010

ULTRA-SMALL SUPPLY VOLTAGE SUPERVISORS

Check for Samples: TPS3800-xx, TPS3801-xx, TPS3802-xx

FEATURES

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- Small, 5-Pin SC-70 (SOT-323) Package
- Supply Current of 9 µA
- **Power-On Reset Generator With Fixed Delay** Time
 - TPS3800 = 100 ms
 - TPS3801 = 200 ms
 - TPS3802 = 400 ms
- Precision Supply Voltage Monitor 1.8 V, 2.5 V, 2.7 V, 3 V, 3.3 V, 5 V, and Adjustable
- Manual Reset Input (Except TPS3801-01)
- Temperature Range: -40°C to +85°C

APPLICATIONS

- Applications Using DSPs, Microcontrollers, or Microprocessors
- Wireless Communication Systems
- Portable/Battery-Powered Equipment

TPS380x...DCK PACKAGE (TOP VIEW)

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TPS3801-01...DCK PACKAGE

(TOP VIEW)

MR

V_{DD}

SENSE

VDD

- **Programmable Controls**
- Intelligent Instruments
- Industrial Equipment .
- **Notebook/Desktop Computers**
- **Automotive Systems**

GND

GND

RESET

GND

GND

RESET

DESCRIPTION

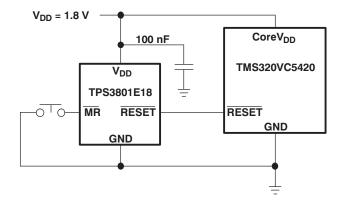
The TPS380x family of supervisory circuits monitor supply voltages to provide circuit initialization and timing supervision, primarily for DSPs and other processor-based systems.

These devices assert a push-pull RESET signal when the SENSE (adjustable version) or V_{DD} (fixed version) drops below a preset threshold. The RESET output remains asserted for the factory programmed delay time after the SENSE or V_{DD} return above its threshold.

The TPS380x devices, except the TPS3801-01, incorporate a manual reset input (MR). A low level at MR causes RESET to become active.

The TPS380x uses a precision reference to achieve an overall threshold accuracy of 2%-2.5%. These devices are available in a 5-pin SC-70 package, which is only about half the size of a 5-pin SOT-23 package.

The TPS380x devices are fully specified over a temperature range of -40°C to +85°C.



 \overline{M}

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TPS3800-xx TPS3801-xx TPS3802-xx SLVS219E – AUGUST 1999– REVISED OCTOBER 2010



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These devices have limited built-in ESD protection. The leads should be shorted together or the device placed in conductive foam during storage or handling to prevent electrostatic damage to the MOS gates.

AVAILABLE	OPTIONS ⁽¹⁾
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T _A	DEVICE NAME	THRESHOLD VOLTAGE	TYP DELAY TIME	MARKING
	TPS3801-01DCK	Adjustable (V _{ref} = 1.14 V)	200 ms	ARF
	TPS3801E18DCK	1.71 V	200 ms	ARE
	TPS3801J25DCK	2.25 V	200 ms	NJA
	TPS3800G27DCK	2.5 V	95 ms	ARI
-40°C to 85°C	TPS3801L30DCK	2.64 V	200 ms	NPA
-40°C 10 85°C	TPS3801K33DCK	2.93 V	200 ms	NWA
	TPS3802L30DCK	2.64 V	380 ms	ASA
	TPS3802K33DCK	2.93 V	380 ms	ARK
	TPS3801T50DCK	4.00 V	25 ms	AVI
	TPS3801I50DCK	4.55 V	200 ms	NSA

(1) For the most current package and ordering information, see the Package Option Addendum at the end of this data sheet, or refer to our web site at www.ti.com.

ABSOLUTE MAXIMUM RATINGS⁽¹⁾ ⁽²⁾

Over operating free-air temperature range (unless otherwise noted).

	UNIT
Supply voltage, V _{DD}	7 V
SENSE	–0.3 V to 5 V
All other pins	–0.3 V to 7 V
MR	–0.3 V to V _{DD} + 0.3 V
RESET	–0.3 V to V _{DD} + 0.3 V
Maximum low-output current, I _{OL}	5 mA
Maximum high-output current, I _{OH}	–5 mA
Input-clamp current, I_{IK} (V _I < 0 or V _I > V _{DD})	±20 mA
Output-clamp current, I_{OK} (V _O < 0 or V _O > V _{DD})	±20 mA
Operating junction temperature range, $T_{J}^{(3)}$	-40°C to +85°C
Storage temperature range, T _{stg}	−65°C to +150°C

(1) Stresses beyond those listed under absolute maximum ratings may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under recommended operating conditions is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

(2) All voltage values are with respect to GND. For reliable operation, the device should not be operated at 7 V for more than t = 1000h continuously.

(3) Due to the low dissipation power of this device, it is assumed that $T_J = T_A$.

RECOMMENDED OPERATING CONDITIONS

		MIN	MAX	UNIT
	TPS3801J25, TPS3801L30, TPS3801K33, TPS3801I50, TPS3801T50	2	6	V
Supply voltage, V _{DD}	All other devices	1.6	4	v
SENSE		0	See (1)	V
Input voltage, V _I		0	V _{DD} +0.3	V
High-level input voltage, V _{IH}		$0.7 \times V_{DD}$	V _{DD} +0.3	V
Low-level input voltag	e, V _{IL}		$0.3 \times V_{DD}$	V
Input transition rise an	nd fall rate at \overline{MR} , $\Delta t/\Delta V$		100	ns/V
Pull-up resistor value,	RESET	V _{Pull-up} 50µA		Ω
Operating free-air terr	nperature range, T _A	-40	+85	°C

(1) Maximum = V_{DD} + 0.3 or 4.5 V, whichever is greater.



ELECTRICAL CHARACTERISTICS

Over -40°C to +85°C free-air temperature range (unless otherwise noted).

PAR	AMETER		TEST CONDITIONS		xx, TPS3801- S3802-xx	xx,	
				MIN	TYP	MAX	UNIT
			V_{DD} = 1.6 V to 6 V I _{OH} = -500 µA	V _{DD} -0.2			
V _{ОН}	High-level output voltage	ge (RESET)	$V_{DD} = 3.3 \text{ V I}_{OH} = -2 \text{ mA}$	V _{DD} -0.4			V
			$V_{DD} = 6 V I_{OH} = -4 mA^{(1)}$	V _{DD} -0.4			
			$V_{DD} = 1.6 \text{ V to } 6 \text{ V}, I_{OL} = 500 \mu\text{A}$			0.2	
V _{OL}	Low-level output voltag	e (RESET)	V _{DD} = 3.3 V, I _{OL} = 2 mA			0.4	V
			$V_{DD} = 6 V, I_{OL} = 4 mA^{(1)}$			0.4	
	Power-up reset voltage	(2)	V _{DD} ≥ 1.1 V, I _{OL} = 50 µA			0.2	V
		TPS380x-01		1.117	1.14	1.163	
	TPS380xE18			1.67	1.71	1.75	
		TPS380xJ25		2.2	2.25	2.3	
	Negative-going input	TPS380xG27	T 4000 to 0500	2.45	2.5	2.55	
V _{IT-}	threshold voltage ⁽³⁾	TPS380xL30	$T_A = -40^{\circ}C$ to $85^{\circ}C$	2.58	2.64	2.7	V
		TPS380xK33		2.87	2.93	2.99	
		TPS380xl50		4.55	4.65		
		TPS380xT50		3.92	4	4.08	
		TPS380x-01		15	15		
		TPS380xx18	-		25		
		TPS380xx25			30		
V _{hys}	Threshold hysteresis	TPS380xx27			35		mV
,		TPS380xx30			35		
		TPS380xx33			40		
		TPS380xx50	-		60		
I _{IH}	High-level input current	t (MR)	$\overline{\text{MR}} = 0.7 \times \text{V}_{\text{DD}}, \text{V}_{\text{DD}} = 6 \text{ V}$	-40	-60	-100	
I _{IL}	Low-level input current	(MR)	$\overline{\text{MR}} = 0 \text{ V}, \text{ V}_{\text{DD}} = 6 \text{ V}$	-130	-200	-340	μA
I _I	Input current (SENSE)			-25		25	nA
		TPS3801J25, TPS3801L30,	$V_{DD} = 2 \text{ V}, \overline{MR} \text{ and output}$ unconnected		9	12	
		TPS3801K33, TPS3801I50, TPS3801T50	$V_{DD} = 6 V, \overline{MR}$ and output unconnected		20	25	
I _{DD}		TPS3801-01	V_{DD} = 1.6 V, SENSE = 0 V to V_{DD} , output unconnected		7	10	μA
50	TPS3801E18, TPS3800G27		$V_{DD} = 4 \text{ V}, \text{ SENSE} = 0 \text{ V to } V_{DD},$ output unconnected		9	12	F
			$V_{DD} = 1.6 \text{ V}, \overline{\text{MR}} \text{ and output}$ unconnected		8	11	
		TPS3802K33, TPS3802L30	$V_{DD} = 4 \text{ V}, \overline{MR} \text{ and output}$ unconnected		13	18	
Ci	Input capacitance		$V_1 = 0 V$ to V_{DD}		5		pF

(1)

Only valid for the TPS3801J25, TPS3801L30, TPS3801K33, TPS3801I50, and TPS3801T50. The lowest supply voltage at which RESET becomes active. $t_{r, VDD} \ge 15 \ \mu s/V$. To ensure the best stability of the threshold voltage, a bypass capacitor (0.1- μ F ceramic) should be placed near the supply terminals. (2) (3)

TPS3800-xx TPS3801-xx TPS3802-xx

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TIMING REQUIREMENTS

at $R_L = 1 M\Omega$,	$C_{\rm r} = 50 \rm nE_{\rm T}$	+25°C
$a_1 r_1 = 1 w_{122}$	$O_{L} = 50 \text{ pr}, 1$	A = +25 C

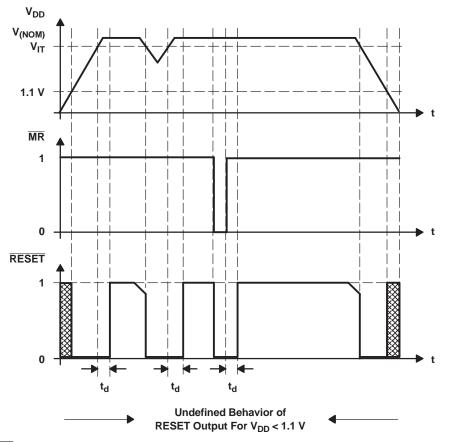
PARAMETER			TEST CONDITIONS	MIN	TYP	MAX	UNIT
		at SENSE	V_{DD} = 1.6 V, V_{IH} = 1.1 × V_{IT-} , V_{IL} = 0.9 × V_{IT-}	1			
tw	Pulse width	at V _{DD}	$V_{DD} = V_{IT-} + 0.2 V, V_{DD} = V_{IT-} - 0.2 V$	3	3		μS
		at MR	$V_{DD} \geq V_{IT-} + 0.2 \; V, \; V_{IL} = 0.3 \; \textbf{x} \; V_{DD}, \; V_{IH} = 0.7 \; \textbf{x} \; V_{DD}$	100)		ns

SWITCHING CHARACTERISTICS

at $R_L = 1 \text{ M}\Omega$, $C_L = 50 \text{ pF}$, $T_A = +25^{\circ}C$

PARA	METER	TEST CONDITIONS	MIN	TYP	MAX	UNIT	
		TPS3801T50		15	25	35	
		TPS3800	$V_{DD} \ge V_{IT-} + 0.2 V,$	60	95	140	
τ _d	t _d RESET recovery delay time	TPS3801	$\overline{MR} \ge 0.7 \times V_{DD}$ See timing diagram	120	200	280	ms
		TPS3802		240	380	560	
 Propagation (delay) time, high-to-low-level 		MR to RESET delay	$V_{DD} \ge V_{IT-} + 0.2 V,$ $V_{IL} = 0.3 \times V_{DD},$ $V_{IH} = 0.7 \times V_{DD}$		15		ns
Inu	butput	V _{DD} to RESET delay SENSE to RESET	$V_{IL} = V_{IT-} - 0.2 V,$ $V_{IH} = V_{IT-} + 0.2 V$		1		μs

TIMING DIAGRAM

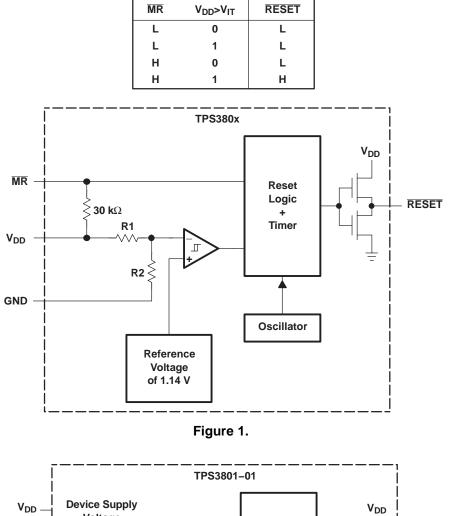


NOTE: $\overline{\text{RESET}}$ should not be forced high during the power-up sequence (until V_{DD} > 1.1 V).

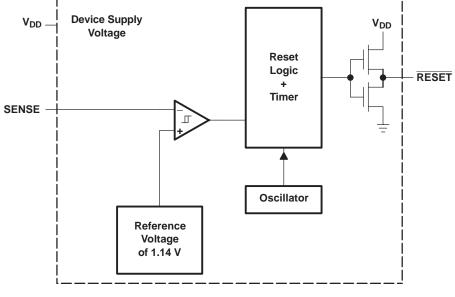
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FUNCTIONAL BLOCK DIAGRAMS



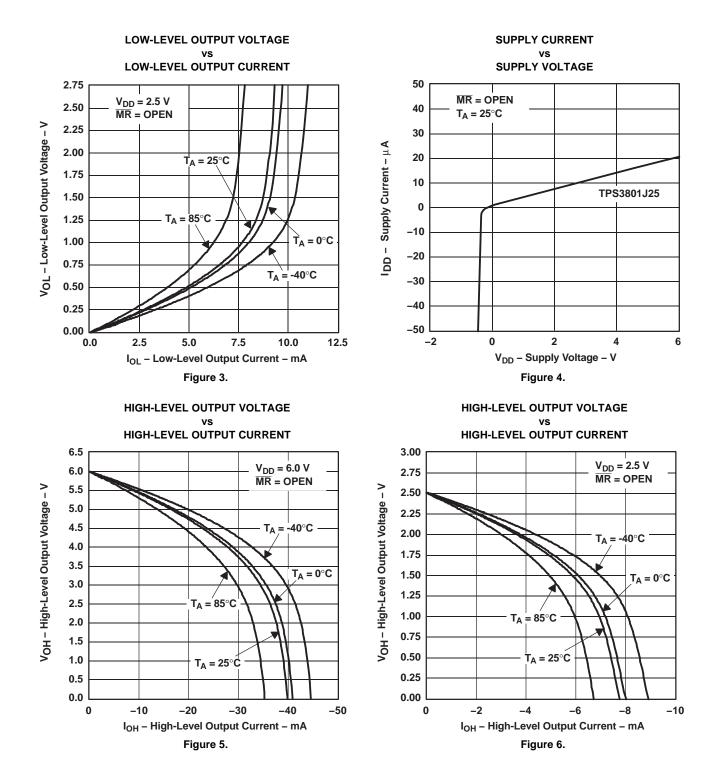
FUNCTION/TRUTH TABLE, TPS380x







TYPICAL CHARACTERISTICS



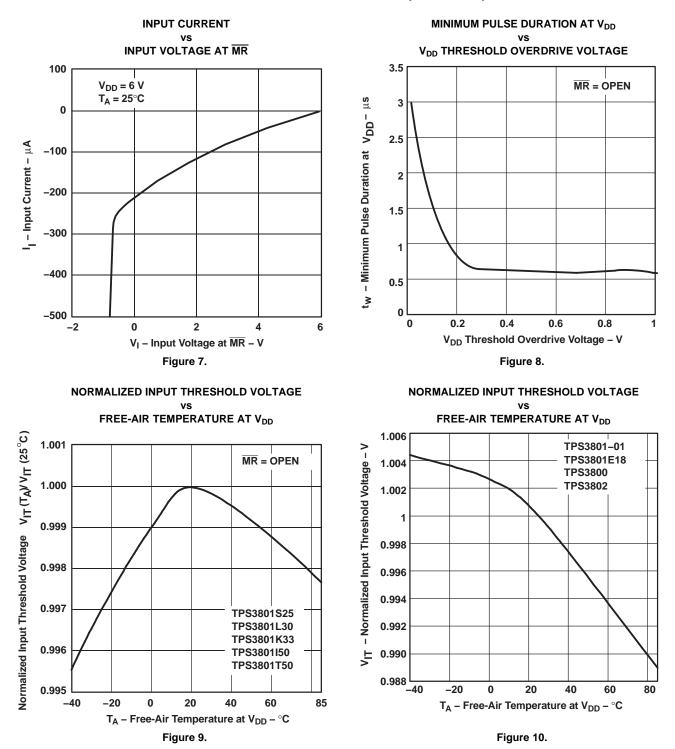
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Product Folder Link(s): TPS3800-xx TPS3801-xx TPS3802-xx



TYPICAL CHARACTERISTICS (continued)





Changes from Revision D (December 2006) to Revision E Page

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PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
TPS3800G27DCKR	ACTIVE	SC70	DCK	5	3000	RoHS & Green	(6) NIPDAU	Level-1-260C-UNLIM	-40 to 85	ARI	Samples
TPS3801-01DCKR	ACTIVE	SC70	DCK	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ARF	Samples
TPS3801-01DCKRG4	ACTIVE	SC70	DCK	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ARF	Samples
TPS3801E18DCKR	ACTIVE	SC70	DCK	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ARE	Samples
TPS3801I50DCKR	ACTIVE	SC70	DCK	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	NSA	Samples
TPS3801I50DCKRG4	ACTIVE	SC70	DCK	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	NSA	Samples
TPS3801J25DCKR	ACTIVE	SC70	DCK	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	NJA	Samples
TPS3801K33DCKR	ACTIVE	SC70	DCK	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	NWA	Samples
TPS3801K33DCKRG4	ACTIVE	SC70	DCK	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	NWA	Samples
TPS3801L30DCKR	ACTIVE	SC70	DCK	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	NPA	Samples
TPS3801T50DCKR	ACTIVE	SC70	DCK	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AVI	Samples
TPS3802K33DCKR	ACTIVE	SC70	DCK	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ARK	Samples
TPS3802L30DCKR	ACTIVE	SC70	DCK	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ASA	Samples

⁽¹⁾ The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

⁽²⁾ RoHS: TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

RoHS Exempt: TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

Green: TI defines "Green" to mean the content of Chlorine (CI) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must also meet the <=1000ppm threshold requirement.



⁽³⁾ MSL, Peak Temp. - The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

⁽⁴⁾ There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.

(5) Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.

(6) Lead finish/Ball material - Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

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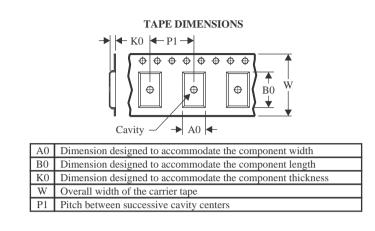
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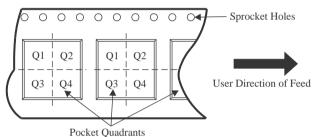
STRUMENTS

TAPE AND REEL INFORMATION





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE

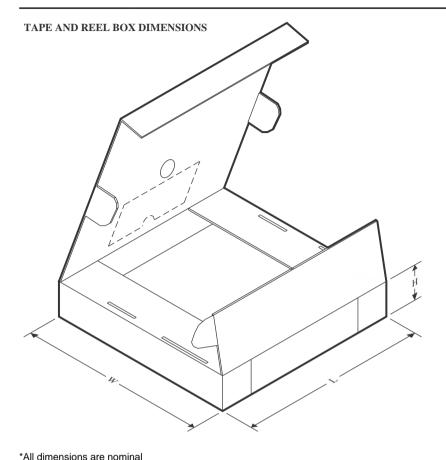


Device	Package Type	Package Drawing		SPQ	Reel Diameter	Reel Width	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
	- 71				(mm)	W1 (mm)	· · /	()	()	()	()	
TPS3800G27DCKR	SC70	DCK	5	3000	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
TPS3800G27DCKR	SC70	DCK	5	3000	180.0	8.4	2.41	2.41	1.2	4.0	8.0	Q3
TPS3801-01DCKR	SC70	DCK	5	3000	180.0	8.4	2.41	2.41	1.2	4.0	8.0	Q3
TPS3801-01DCKR	SC70	DCK	5	3000	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
TPS3801E18DCKR	SC70	DCK	5	3000	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
TPS3801E18DCKR	SC70	DCK	5	3000	180.0	8.4	2.41	2.41	1.2	4.0	8.0	Q3
TPS3801I50DCKR	SC70	DCK	5	3000	180.0	8.4	2.41	2.41	1.2	4.0	8.0	Q3
TPS3801J25DCKR	SC70	DCK	5	3000	180.0	8.4	2.41	2.41	1.2	4.0	8.0	Q3
TPS3801K33DCKR	SC70	DCK	5	3000	180.0	8.4	2.41	2.41	1.2	4.0	8.0	Q3
TPS3801K33DCKR	SC70	DCK	5	3000	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
TPS3801L30DCKR	SC70	DCK	5	3000	180.0	8.4	2.41	2.41	1.2	4.0	8.0	Q3
TPS3801T50DCKR	SC70	DCK	5	3000	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
TPS3801T50DCKR	SC70	DCK	5	3000	180.0	8.4	2.41	2.41	1.2	4.0	8.0	Q3
TPS3802K33DCKR	SC70	DCK	5	3000	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
TPS3802K33DCKR	SC70	DCK	5	3000	180.0	8.4	2.41	2.41	1.2	4.0	8.0	Q3
TPS3802L30DCKR	SC70	DCK	5	3000	180.0	8.4	2.41	2.41	1.2	4.0	8.0	Q3



PACKAGE MATERIALS INFORMATION

3-Jun-2022



Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
TPS3800G27DCKR	SC70	DCK	5	3000	180.0	180.0	18.0
TPS3800G27DCKR	SC70	DCK	5	3000	183.0	183.0	20.0
TPS3801-01DCKR	SC70	DCK	5	3000	183.0	183.0	20.0
TPS3801-01DCKR	SC70	DCK	5	3000	180.0	180.0	18.0
TPS3801E18DCKR	SC70	DCK	5	3000	180.0	180.0	18.0
TPS3801E18DCKR	SC70	DCK	5	3000	183.0	183.0	20.0
TPS3801I50DCKR	SC70	DCK	5	3000	183.0	183.0	20.0
TPS3801J25DCKR	SC70	DCK	5	3000	183.0	183.0	20.0
TPS3801K33DCKR	SC70	DCK	5	3000	183.0	183.0	20.0
TPS3801K33DCKR	SC70	DCK	5	3000	180.0	180.0	18.0
TPS3801L30DCKR	SC70	DCK	5	3000	183.0	183.0	20.0
TPS3801T50DCKR	SC70	DCK	5	3000	180.0	180.0	18.0
TPS3801T50DCKR	SC70	DCK	5	3000	183.0	183.0	20.0
TPS3802K33DCKR	SC70	DCK	5	3000	180.0	180.0	18.0
TPS3802K33DCKR	SC70	DCK	5	3000	183.0	183.0	20.0
TPS3802L30DCKR	SC70	DCK	5	3000	183.0	183.0	20.0

DCK (R-PDSO-G5)

PLASTIC SMALL-OUTLINE PACKAGE



- NOTES: A. All linear dimensions are in millimeters.
 - B. This drawing is subject to change without notice.
 - C. Body dimensions do not include mold flash or protrusion. Mold flash and protrusion shall not exceed 0.15 per side.
 - D. Falls within JEDEC MO-203 variation AA.



LAND PATTERN DATA



NOTES:

- A. All linear dimensions are in millimeters.B. This drawing is subject to change without notice.
- C. Customers should place a note on the circuit board fabrication drawing not to alter the center solder mask defined pad.
- D. Publication IPC-7351 is recommended for alternate designs.
- E. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Example stencil design based on a 50% volumetric metal load solder paste. Refer to IPC-7525 for other stencil recommendations.



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