



捷多邦,专业PCB打样工厂,24小时加急出货 **TP\$72615**,**TP\$**

TPS72615, TPS72616 TPS72618, TPS72625

SLVS403C-MAY 2002-REVISED MARCH 2004

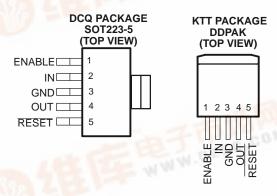
LOW INPUT VOLTAGE, 1-A LOW-DROPOUT LINEAR REGULATORS WITH SUPERVISOR

FEATURES

- 1-A Output Current
- Available in 1.5-V, 1.6-V, 1.8-V, 2.5-V
 Fixed-Output (For Adjustable Versions Refer to TPS72501)
- Input Voltage Down to 1.8 V
- Low 170-mV Dropout Voltage at 1 A (TPS72625)
- Stable With Any Type/Value Output Capacitor
- Integrated Supervisor (SVS) With 200-ms RESET Delay Time
- Low 210-μA Ground Current at Full Load (TPS72625)
- Less than 1-µA Standby Current
- ±2% Output Voltage Tolerance Over Line, Load, and Temperature (-40°C to 125°C)
- Integrated UVLO
- Thermal and Overcurrent Protection
- 5-Lead SOT223-5 or DDPAK Surface-Mount Package

APPLICATIONS

- PCI Cards
- Modem Banks
- Telecom Boards
- DSP, FPGA, and Microprocessor Power Supplies
- Portable, Battery-Powered Applications



DESCRIPTION

The TPS726xx family of 1-A low-dropout (LDO) linear regulators has fixed voltage options available that are commonly used to power the latest DSPs, FPGAs, and microcontrollers. The integrated supervisory circuitry provides an active low RESET signal when the output falls out of regulation. The no capacitor/any capacitor feature allows the customer to tailor output transient performance as needed. Therefore, compared to other regulators capable of providing the same output current, this family of regulators can provide a stand alone power supply solution or a post regulator for a switch mode power supply.

These regulators are ideal for higher current applications. The family operates over a wide range of input voltages (1.8 V to 6 V) and has very low dropout (170 mV at 1-A).

Ground current is typically 210 μ A at full load and drops to less than 80 μ A at no load. Standby current is less than 1 μ A.

Each regulator option is available in either a SOT223-5 or DDPAK package. With a low input voltage and properly heatsinked package, the regulator dissipates more power and achieves higher efficiencies than similar regulators requiring 2.5 V or more minimum input voltage and higher quiescent currents. These features make it a viable power supply solution for portable, battery powered equipment.

Although an output capacitor is not required for stability, transient response and output noise are improved with a 10-µF output capacitor.

Unlike some regulators that have a minimum current requirement, the TPS726 family is stable with no output load current. The low noise capability of this family, coupled with its high current operation and ease of power dissipation, make it ideal for telecom boards, modem banks, and other noise sensitive applications.

Note: Tab is GND for both packages

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.

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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.

ORDERING INFORMATION

T _J	VOLTAGE(1)(2)	SOT223-5 ⁽³⁾	SYMBOL	DDPAK(4)	SYMBOL
	1.5 V	TPS72615DCQ	PS72615	TPS72615KTT	TPS72615
-40°C to 125°C	1.6 V	TPS72616DCQ	PS72616	TPS72616KTT	TPS72616
-40°C to 125°C	1.8 V	TPS72618DCQ	PS72618	TPS72618KTT	TPS72618
	2.5 V	TPS72625DCQ	PS72625	TPS72625KTT	TPS72625

- (1) Other voltage options are available upon request from the manufacturer.
- (2) Refer to TPS72501 for adjustable version.
- (3) To order a taped and reeled part, add the suffix **R** to the part number (e.g., TPS72151DCQ**R**).
- (4) To order a 50-piece reel, add the suffix T (e.g., TPS72615KTTT); to order a 500-piece reel, add the suffix R (e.g., TPS72615KTTR).

ABSOLUTE MAXIMUM RATINGS

over operating free-air temperature range unless otherwise noted(1)

		UNIT
Input voltage, V _I (2)	-0.3 to 7	V
Voltage range at EN, FB	-0.3 to $V_1 + 0.3$	V
Voltage on OUT, RESET	6	V
ESD rating, HBM	2	kV
Continuous total power dissipation	See Dissipation Ratir	ng Table
Operating junction temperature range, T _J	-50 to 150	°C
MAximum junction temperature range, T _J	150	°C
Storage temperature, T _{stg}	-65 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.

RECOMMENDED OPERATING CONDITIONS

	MIN	Nom	MAX	UNIT
Input voltage, V _I ^(t)	1.8		6	V
Continuous output current, I _O	0		1	Α
Operating junction temperature, T _J	-40		125	°C

⁽¹⁾ Minimum $V_I = V_O(nom) + V_{DO}$.

PACKAGE DISSIPATION RATINGS

PACKAGE	BOARD	$R_{\Theta JC}$	R_{\ThetaJA}
DDPAK	High K ⁽¹⁾	2 °C/W	23 °C/W
SOT223	Low K ⁽²⁾	15 °C/W	53 °C/W

⁽¹⁾ The JEDEC high K (2s2p) board design used to derive this data was a 3-inch x 3-inch (7,5-cm x 7,5-cm), multilayer board with 1 ounce internal power and ground planes and 2 ounce copper traces on top and bottom of the board.

⁽²⁾ All voltage values are with respect to network ground terminal.

⁽²⁾ The JEDEC low K (1s) board design used to derive this data was a 3-inch x 3-inch (7,5-cm x 7,5-cm), two-layer board with 2 ounce copper traces on top of the board.



ELECTRICAL CHARACTERISTICS

over recommended operating free-air temperature range $V_I = V_{O(typ)} + 1 V$, $I_O = 1 mA$, EN = IN, $C_o = 1 \mu F$, $C_i = 1 \mu F$ (unless otherwise noted)

	PARAMETER		TEST COND	ITIONS	MIN	TYP	MAX	UNIT
	Bandgap voltage re	eference			1.177	1.220	1.263	V
		TPS72615	T _J = 25°C		,	1.5		
		17572015	0 μA < I _O < 1 A	1.8 V ≤ V _I ≤ 5.5 V	1.47		1.53	
		TDC72646	T _J = 25°C			1.6		
	Output voltage	TPS72616	0 μA < I _O < 1 A	2.6 V ≤ V _I ≤ 5.5 V	1.568		1.632	V
Vo	Output voltage	TPS72618	$T_J = 25^{\circ}C$			1.8		V
		17372010	0 μA < I _O < 1 A	2.8 V ≤ V _I ≤ 5.5 V	1.764		1.836	
		TPS72625	$T_J = 25^{\circ}C$			2.5		
		17372025	0 μA < I _O < 1 A	$3.5 \text{ V} \le \text{V}_{\text{I}} \le 5.5 \text{ V}$	2.45		2.55	
	Cround autront		I _O = 0 μA			75	120	
[Ground current		I _O = 1 A			210	300	μΑ
	Standby current		EN < 0.4 V	T _J = 25°C		0.2		μΑ
	Standby current		EN < 0.4 V				1	
V _n	Output noise voltage		BW = 200 Hz to 100 kHz, $T_J = 25^{\circ}C$,	C _o = 10 μF,I _O = 1 mA		150		μV
PSRR	Ripple rejection		$f = 1 \text{ kHz}, C_0 = 10 \mu\text{F}$	T _J = 25°C		60		dB
	Current limit(1)				1.1	1.6	2.3	Α
	Output voltage line $(\Delta V_O/V_O)^{(2)}$	regulation	V _O + 1 V < V _I ≤ 5.5 V		-0.15	0.02	0.15	%/V
	Output voltage load	regulation	0 μA < I _O < 1 A		-0.25	0.05	0.25	%/A
V _{IH}	EN high level input				1.3			V
V _{IL}	EN low level input				-0.2		0.4	V
I _I	EN input current		EN = 0 V or V _I			0.01	100	nA
	UVLO threshold		V _{CC} rising		1.45	1.57	1.70	V
	UVLO hysteresis		$T_J = 25^{\circ}C$, V_{CC} rising			50		mV
	UVLO deglitch		$T_J = 25^{\circ}C$, V_{CC} rising			10		μs
	UVLO delay		$T_J = 25^{\circ}C$, V_{CC} rising			100		μs

(1) Test condition includes, output voltage $V_O = V_O$ - 15% and pulse duration = 10 ms.

Line regulation (mV) = (%/V) × $\frac{V_O(5.5 \text{ V} - V_{Imin})}{100}$ × 1000 (2) $V_{Imin} = (V_O + 1)$ or 1.8 V whichever is greater.



ELECTRICAL CHARACTERISTICS (continued)

over recommended operating free-air temperature range $V_I = V_{O(typ)} + 1 V$, $I_O = 1 \text{ mA}$, EN = IN, $C_o = 1 \mu\text{F}$, $C_i = 1 \mu\text{F}$ (unless otherwise noted)

PARAMETER			TEST CONDITIONS		MIN	TYP	MAX	UNIT
		1 1PS/2625 (9)	I _O = 1 A	T _J = 25°C		170		
/	Dropout voltage		I _O = 1 A				280	mV
V _{DO}	Diopout voltage	TPS72618 ⁽³⁾	I _O = 1 A	T _J = 25°C		210		
		117572618 (9)	I _O = 1 A				320	
	Minimum input voltage for valid RESET				1.3			٧
	Trip threshold voltage				90	93	96	%V _O
	Hysteresis voltage					10		mV
RESET	RESET t _(RESET) delay time				100	200	300	ms
	Rising edge deglitch					10		μs
	Output low voltage (at 700 μA)				-0.3		0.4	V
Leakage current						100	nA	

(3) Dropout voltage is defined as the differential voltage between V_O and V_I when V_O drops 100 mV below the value measured with V_I = V_O + 1 V.

FUNCTIONAL BLOCK DIAGRAM

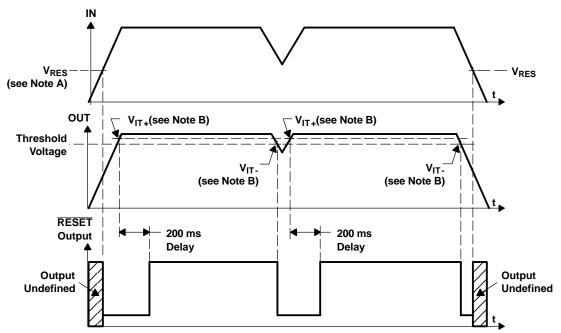
TPS72615/16/18/25 IN Current Limit / Thermal Protection GND Deglitch and Delay 0.93 × V_{ref} RESET

Terminal Functions

TERMINAL			DESCRIPTION
NAME	NO.	1/0	DESCRIPTION
GND	3		Ground
ENABLE	1	- 1	Enable input
IN	2	1	Input supply voltage
RESET	5	O/I	This terminal is the RESET output terminal. When used with a pullup resistor, this open-drain output provides the active low RESET signal when the regulator output voltage drops more than 5% below its nominal output voltage. The RESET delay time is typically 200 ms.
OUT	4	0	Regulated output voltage



RESET TIMING DIAGRAM



NOTES:A. V_{RES} is the minimum input voltage for a valid RESET. The symbol V_{RES} is not currently listed within EIA or JEDEC standards for semiconductor symbology.

B. V_{IT} -Trip voltage is typically 7% lower than the output voltage (93% V_O) V_{IT} to V_{IT+} is the hysteresis voltage.



TYPICAL CHARACTERISTICS

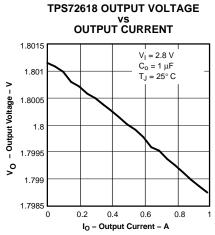


Figure 1.

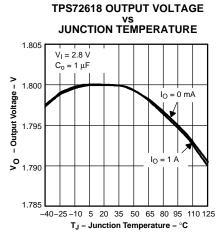
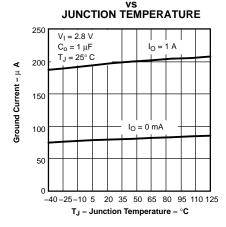


Figure 2.



TPS72618 GROUND CURRENT

Figure 3.

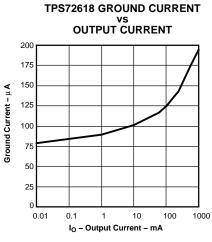


Figure 4.

MINIMUM REQUIRED INPUT VOLT-AGE

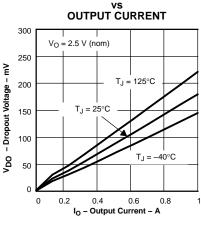


Figure 5.

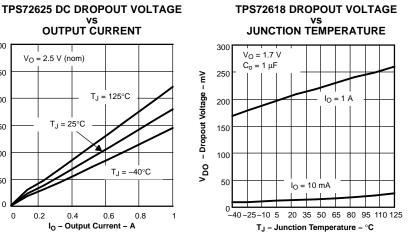


Figure 6.

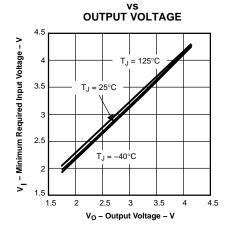


Figure 7.

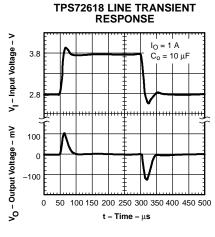


Figure 8.

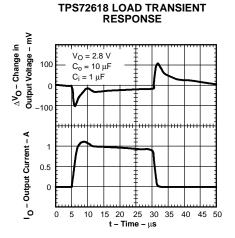


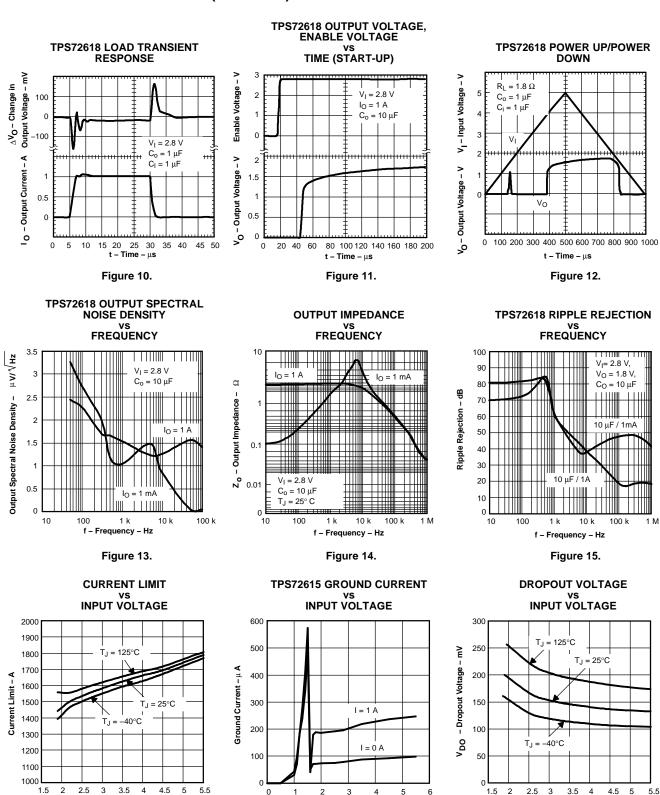
Figure 9.



TYPICAL CHARACTERISTICS (continued)

V_I - Input voltage - V

Figure 16.



V_I - Input Voltage - V

Figure 17.

V_I - Input Voltage - V

Figure 18.



APPLICATION INFORMATION

The TPS726xx family of low-dropout (LDO) regulators have numerous features that make it apply to a wide range of applications. The family operates with very low input voltage (\geq 1.8 V) and low dropout voltage (typically 200 mV at full load), making it an efficient stand-alone power supply or post regulator for battery or switch mode power supplies. Both the active low RESET and 1-A output current, make the TPS726xx family ideal for powering processor and FPGA supplies. The TPS726xx family also has low output noise (typically 150 μ V_{RMS} with 10- μ F output capacitor), making it ideal for use in telecom equipment.

External Capacitor Requirements

A 1-µF or larger ceramic input bypass capacitor, connected between IN and GND and located close to the TPS725xx, is required for stability. To improve transient response, noise rejection, and ripple rejection, an additional 10-µF or larger, low ESR capacitor is recommended. A higher-value, low ESR input capacitor may be necessary if large, fast-rise-time load transients are anticipated and the device is located several inches from the power source, especially if the minimum input voltage of 1.8 V is used.

Although an output capacitor is not required for stability, transient response and output noise are improved with a 10-µF output capacitor.

Regulator Protection

The TPS726xx pass element has a built-in back diode that safely conducts reverse current when the input voltage drops below the output voltage (e.g., during power down). Current is conducted from the output to the input and is not internally limited. If extended reverse voltage is anticipated, external limiting might be appropriate.

The TPS726xx also features internal current limiting and thermal protection. During normal operation, the TPS726xx limits output current to approximately 1.6 A. When current limiting engages, the output voltage scales back linearly until the overcurrent condition ends. While current limiting is designed to prevent gross device failure, care should be taken not to exceed the power dissipation ratings of the package. If the temperature of the device exceeds 165°C, thermal-protection circuitry shuts it down. Once the device has cooled down to below 145°C, regulator operation resumes.

THERMAL INFORMATION

The amount of heat that an LDO linear regulator generates is directly proportional to the amount of power it dissipates during operation. All integrated circuits have a maximum allowable junction temperature (T_Jmax) above which normal operation is not assured. A system designer must design the operating environment so that the operating junction temperature (T_J) does not exceed the maximum junction temperature (T_Jmax). The two main environmental variables that a designer can use to improve thermal performance are air flow and external heatsinks. The purpose of this information is to aid the designer in determining the proper operating environment for a linear regulator that is operating at a specific power level.

In general, the maximum expected power (P_{D(max)}) consumed by a linear regulator is computed as:

$$P_{D}^{max} = \left(V_{I(avg)} - V_{O(avg)}\right) \times I_{O(avg)} + V_{I(avg)} \times I_{(Q)}$$
(1)

Where:

- V_{I(avq)} is the average input voltage.
- V_{O(avg)} is the average output voltage.
- O(avg) is the average output current.
- I_(Q) is the quiescent current.

For most TI LDO regulators, the quiescent current is insignificant compared to the average output current; therefore, the term $V_{I(avg)}$ x $I_{(Q)}$ can be neglected. The operating junction temperature is computed by adding the ambient temperature (T_A) and the increase in temperature due to the regulator's power dissipation. The temperature rise is computed by multiplying the maximum expected power dissipation by the sum of the thermal resistances between the junction and the case ($R_{\Theta JC}$), the case to heatsink ($R_{\Theta CS}$), and the heatsink to ambient ($R_{\Theta SA}$). Thermal resistances are measures of how effectively an object dissipates heat. Typically, the larger the device, the more surface area available for power dissipation and the lower the object's thermal resistance.



Figure 19 illustrates these thermal resistances for (a) a SOT223 package mounted in a JEDEC low-K board, and (b) a DDPAK package mounted on a JEDEC high-K board.

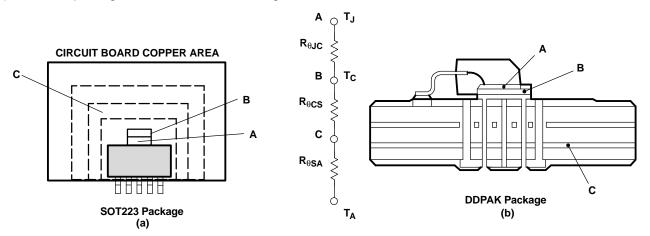


Figure 19. Thermal Resistances

Equation 2 summarizes the computation:

$$T_{J} = T_{A} + P_{D} \max x \left(R_{\theta JC} + R_{\theta CS} + R_{\theta SA} \right)$$
(2)

The $R_{\Theta JC}$ is specific to each regulator as determined by its package, lead frame, and die size provided in the regulator's data sheet. The $R_{\Theta SA}$ is a function of the type and size of heatsink. For example, *black body radiator* type heatsinks can have $R_{\Theta CS}$ values ranging from 5°C/W for very large heatsinks to 50°C/W for very small heatsinks. The $R_{\Theta CS}$ is a function of how the package is attached to the heatsink. For example, if a thermal compound is used to attach a heatsink to a SOT223 package, $R_{\Theta CS}$ 0f 1°C/W is reasonable.

Even if no external black body radiator type heatsink is attached to the package, the board on which the regulator is mounted provides some heatsinking through the pin solder connections. Some packages, like the DDPAK and SOT223 packages, use a copper plane underneath the package or the circuit board's ground plane for additional heatsinking to improve their thermal performance. Computer-aided thermal modeling can be used to compute very accurate approximations of an integrated circuit's thermal performance in different operating environments (e.g., different types of circuit boards, different types and sizes of heatsinks, and different air flows, etc.). Using these models, the three thermal resistances can be combined into one thermal resistance between junction and ambient ($R_{\Theta JA}$). This $R_{\Theta JA}$ is valid only for the specific operating environment used in the computer model.

Equation 2 simplifies into Equation 3:

$$T_{J} = T_{A} + P_{D} \max x R_{\theta J A}$$
 (3)

Rearranging Equation 3 gives Equation 4:

$$R_{\theta JA} = \frac{T_J - T_A}{P_D max} \tag{4}$$

Using Equation 3 and the computer model generated curves shown in Figure 20 and Figure 23, a designer can quickly compute the required heatsink thermal resistance/board area for a given ambient temperature, power dissipation, and operating environment.

DDPAK Power Dissipation

The DDPAK package provides an effective means of managing power dissipation in surface mount applications. The DDPAK package dimensions are provided in the *Mechanical Data* section at the end of the data sheet. The addition of a copper plane directly underneath the DDPAK package enhances the thermal performance of the package.



To illustrate, the TPS72625 in a DDPAK package was chosen. For this example, the average input voltage is 5 V, the output voltage is 2.5 V, the average output current is 1 A, the ambient temperature 55°C, the air flow is 150 LFM, and the operating environment is the same as documented below. Neglecting the quiescent current, the maximum average power is:

$$P_D max = (5 - 2.5) V x 1 A = 2.5 W$$
 (5)

Substituting T_Jmax for T_J into Equation 4 gives Equation 6:

$$R_{\theta JA} max = (125 - 55)^{\circ} C/2.5 W = 28^{\circ} C/W$$
(6)

From Figure 20, *DDPAK Thermal Resistance vs Copper Heatsink Area*, the ground plane needs to be 1 cm² for the part to dissipate 2.5 W. The operating environment used in the computer model to construct Figure 20 consisted of a standard JEDEC High-K board (2S2P) with a 1 oz. internal copper plane and ground plane. The package is soldered to a 2 oz. copper pad. The pad is tied through thermal vias to the 1 oz. ground plane. Figure 21 shows the side view of the operating environment used in the computer model.

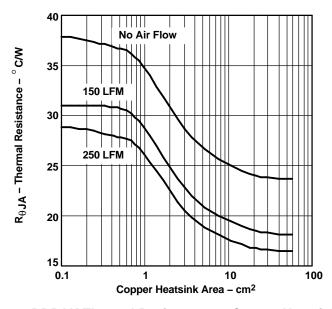


Figure 20. DDPAK Thermal Resistance vs Copper Heatsink Area

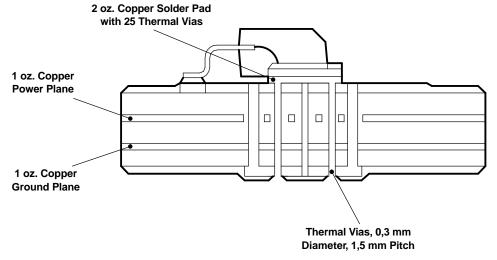


Figure 21. DDPAK Thermal Resistance



From the data in Figure 22 and rearranging Equation 4, the maximum power dissipation for a different ground plane area and a specific ambient temperature can be computed.

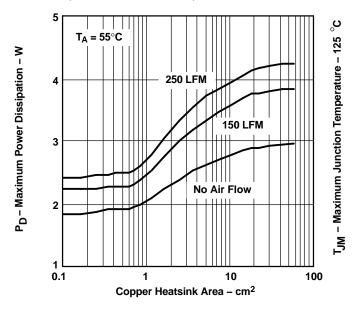


Figure 22. Maximum Power Dissipation vs Copper Heatsink Area

SOT223 Power Dissipation

The SOT223 package provides an effective means of managing power dissipation in surface mount applications. The SOT223 package dimensions are provided in the *Mechanical Data* section at the end of the data sheet. The addition of a copper plane directly underneath the SOT223 package enhances the thermal performance of the package.

To illustrate, the TPS72625 in a SOT223 package was chosen. For this example, the average input voltage is 3.3 V, the output voltage is 2.5 V, the average output current is 1 A, the ambient temperature 55°C, no air flow is present, and the operating environment is the same as documented below. Neglecting the quiescent current, the maximum average power is:

$$P_D max = (3.3 - 2.5) V x 1 A = 800 mW$$
 (7)

Substituting T_Jmax for T_J into Equation 4 gives Equation 8:

$$R_{\theta JA} max = (125 - 55)^{\circ}C/800 mW = 87.5^{\circ}C/W$$
 (8)

From Figure 23, $R_{\Theta,JA}$ vs PCB Copper Area, the ground plane needs to be 0.55 in² for the part to dissipate 800 mW. The operating environment used to construct Figure 23 consisted of a board with 1 oz. copper planes. The package is soldered to a 1 oz. copper pad on the top of the board. The pad is tied through thermal vias to the 1 oz. ground plane.

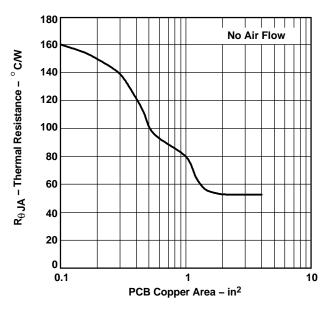


Figure 23. SOT223 Thermal Resistance vs PCB AREA

From the data in Figure 23 and rearranging Equation 4, the maximum power dissipation for a different ground plane area and a specific ambient temperature can be computed (as shown in Figure 24).

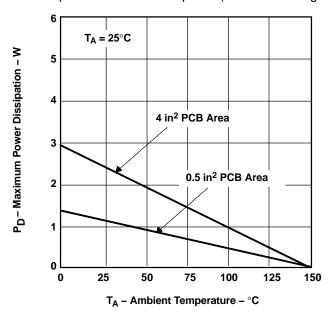
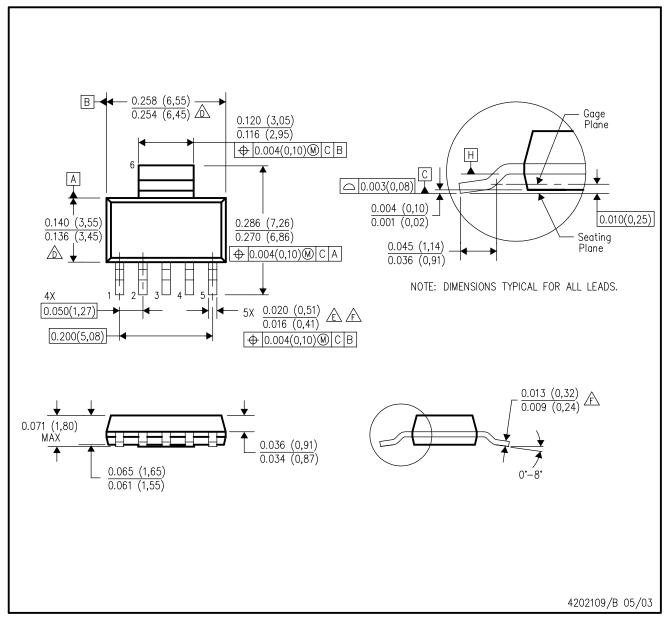


Figure 24. SOT223 Power Dissipation

DCQ (R-PDSO-G6)

PLASTIC SMALL-OUTLINE



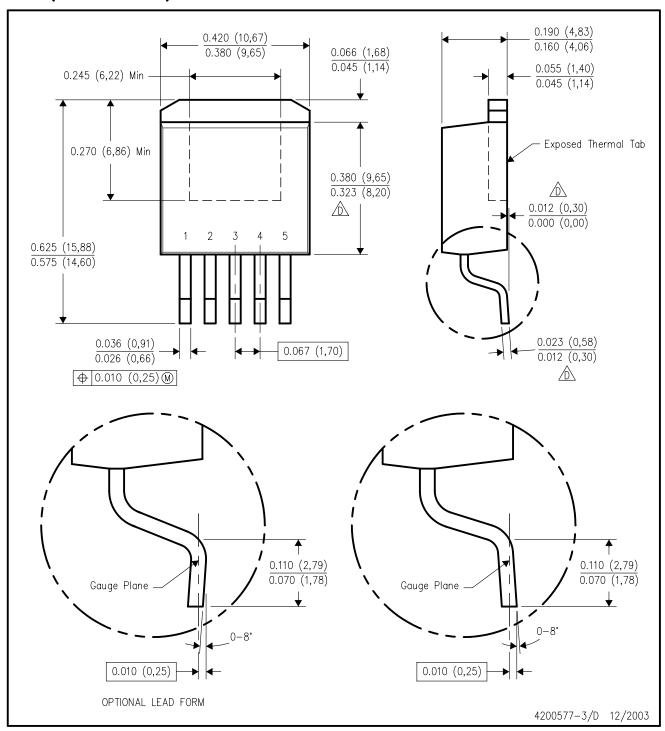
NOTES:

- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. Controlling dimension in inches.
- Body length and width dimensions are determined at the outermost extremes of the plastic body exclusive of mold flash, tie bar burrs, gate burrs, and interlead flash, but including any mismatch between the top and the bottom of the plastic body.
- Lead width dimension does not include dambar protrusion.
- Lead width and thickness dimensions apply to solder plated leads.
- G. Interlead flash allow 0.008 inch max.
- H. Gate burr/protrusion max. 0.006 inch.
- I. Datums A and B are to be determined at Datum H.
- J. Package dimensions per JEDEC outline drawing TO-261, issue B, dated Feb. 1999.
 This variation is not yet included.



KTT (R-PSFM-G5)

PLASTIC FLANGE-MOUNT PACKAGE



NOTES:

- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. Dimensions do not include mold protrusions, not to exceed 0.006 (0,15).
- Falls within JEDEC TO—263 variation BA, except minimum lead thickness, maximum seating height, and minimum body length.



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