



800 mA Fixed-Output CMOS LDO with Shutdown

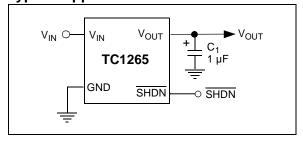
Features

- Very Low Dropout Voltage
- 800 mA Output Current
- High Output Voltage Accuracy
- · Standard or Custom Output Voltages
- Overcurrent and Overtemperature Protection
- SHDN Input for Active Power Management
- ERROR Output Can Be Used as a Low Battery Detector (SOIC only)

Applications

- · Battery-operated Systems
- Portable Computers
- · Medical Instruments
- Instrumentation
- · Cellular/GSM/PHS Phones
- · Linear Post-Regulators for SMPS
- Pagers

Typical Application



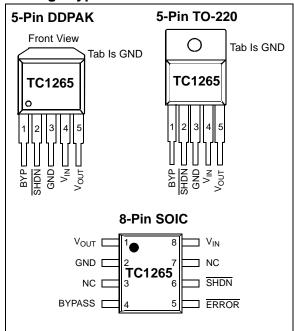
Description

The TC1265 is a fixed-output, high-accuracy (typically $\pm 0.5\%$) CMOS low dropout regulator. Designed specifically for battery-operated systems, the TC1265's CMOS construction eliminates wasted ground current, significantly extending battery life. Total supply current is typically 80 μ A at full load (20 to 60 times lower than in bipolar regulators).

Key features of the TC1265 include ultra low noise operation, very low dropout voltage (typically 450 mV at full load) and fast response to step changes in load.

The TC1265 incorporates both overtemperature and overcurrent protection. The TC1265 is stable with an output capacitor of only 1 μ F and has a maximum output current of 800 mA. It is available in 8-Pin SOIC, 5-Pin TO-220 and 5-Pin DDPAK packages.

Package Type



1.0 ELECTRICAL CHARACTERISTICS

Absolute Maximum Ratings †

 † Notice: Stresses above those listed under "Maximum Ratings" may cause permanent damage to the device. This is a stress rating only and functional operation of the device at those or any other conditions above those indicated in the operation listings of this specification is not implied. Exposure to maximum rating conditions for extended periods may affect device reliability.

DC CHARACTERISTICS

Electrical Specifications: Unless otherwise indicated, $V_{IN} = V_R + 1.5V$, (Note 1), $I_L = 100 \mu A$, $C_L = 3.3 \mu F$, $\overline{SHDN} > V_{IH}$, $T_A = +25^{\circ}C$. Boldface type specifications apply for junction temperatures of -40°C to +125°C.

SHDN > V_{IH} , $T_A = +25$ °C. Boldface type specifications apply for junction temperatures of -40°C to +125°C.							
Parameters	Sym	Min	Тур	Max	Units	Conditions	
Input Operating Voltage	V _{IN}	2.7	1	6.0	٧	Note 2	
Maximum Output Current	I _{OUTMAX}	800	l	_	mA		
Output Voltage	V _{OUT}	V _R - 2.5%	$V_R \pm 0.5\%$	V _R + 2.5%	V	$V_R \ge 2.5V$	
		V _R – 2%	$V_R \pm 0.5\%$	V _R + 3%		V _R = 1.8V	
V _{OUT} Temperature Coefficient	$\Delta V_{OUT}/\Delta T$	_	40	_	ppm/°C	Note 3	
Line Regulation	$\Delta V_{OUT}/\Delta V_{IN}$	_	0.007	0.35	%	$(V_R + 1V) \le V_{IN} \le 6V$	
Load Regulation (Note 4)	$\Delta V_{OUT}/V_{OUT}$	-0.01	0.002	+0.01	%/mA	$I_L = 0.1 \text{ mA to } I_{OUTMAX}$	
Dropout Voltage (Note 5)	V_{IN} – V_{OUT}	_	20	30	mV	$V_R \ge 2.5V, I_L = 100 \mu A$	
		_	50	160		I _L = 100 mA	
			150	480		$I_L = 300 \text{ mA}$	
		_	260	800		$I_L = 500 \text{ mA}$	
		_	450	1300		$I_L = 800 \text{ mA}$	
			700	1000		$V_R = 1.8V, I_L = 500 \text{ mA}$	
		_	890	1400		$I_{L} = 800 \text{ mA}$	
Supply Current	I_{DD}	_	80	130	μA	$\overline{SHDN} = V_{IH}, I_L = 0$	
Shutdown Supply Current	I _{SHDN}	_	0.05	1	μA	SHDN = 0V	
Power Supply Rejection Ratio	PSRR	_	64	_	db	F≤1 kHz	
Output Short Circuit Current	I _{OUTSC}	_	1200	1400	mA	V _{OUT} = 0V	
Thermal Regulation	$\Delta V_{OUT}/\Delta P_{D}$	_	0.04	_	V/W	Note 6	
Output Noise	eN	_	260	_	nV/√ Hz	$I_L = I_{OUTMAX}$, $F = 10 \text{ kHz}$	

Note 1: V_R is the regulator output voltage setting.

2: The minimum V_{IN} has to justify the conditions: $V_{IN} \ge V_R + V_{DROPOUT}$ and $V_{IN} \ge 2.7V$ for $I_L = 0.1$ mA to I_{OUTMAX} .

3:
$$TCV_{OUT} = \frac{\left(V_{OUTMAX} - V_{OUTMIN}\right) - 10^6}{V_{OUT} \times \Delta T}$$

- **4:** Regulation is measured at a constant junction temperature using low duty cycle pulse testing. Load regulation is tested over a load range from 0.1 mA to the maximum specified output current. Changes in output voltage due to heating effects are covered by the thermal regulation specification.
- 5: Dropout voltage is defined as the input-to-output differential at which the output voltage drops 2% below its nominal value measured at a 1.5V differential.
- 6: Thermal regulation is defined as the change in output voltage at a time T after a change in power dissipation is applied, excluding load or line regulation effects. Specifications are for a current pulse equal to I_{LMAX} at V_{IN} = 6V for T = 10 ms.
- 7: The maximum allowable power dissipation is a function of ambient temperature, the maximum allowable junction temperature and the thermal resistance from junction-to-air (i.e., T_A, T_J, θ_{JA}). Exceeding the maximum allowable power dissipation causes the device to initiate thermal shutdown. Please see **Section 5.0 "Thermal Considerations"** for more details.
- 8: Hysteresis voltage is referenced to V_R .

DC CHARACTERISTICS (CONTINUED)

Electrical Specifications: Unless otherwise indicated, $V_{IN} = V_R + 1.5V$, (Note 1), $I_L = 100 \mu A$, $C_L = 3.3 \mu F$, $\overline{SHDN} > V_{IH}$, $T_\Delta = +25^{\circ}C$. Boldface type specifications apply for junction temperatures of -40°C to +125°C.

OFIDIN > VIH, TA = 123 G. Dollarace type specimentials apply for juricular temperatures of 40 G to 1123 G.						
Parameters	Sym	Min	Тур	Max	Units	Conditions
SHDN Input						
SHDN Input High Threshold	V _{IH}	45	_	_	%V _{IN}	
SHDN Input Low Threshold	V _{IL}	_	_	15	%V _{IN}	
ERROR Output (SOIC Only)						
Minimum Operating Voltage	V _{MIN}	1.0	_	_	V	
Output Logic Low Voltage	V _{OL}	_	_	400	mV	1 mA Flows to ERROR
ERROR Threshold Voltage	V _{TH}	_	0.95 x V _R	_	V	
ERROR Positive Hysteresis	V _{HYS}	_	50	_	mV	Note 8

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3:
$$TCV_{OUT} = \frac{(V_{OUTMAX} - V_{OUTMIN}) - 10^6}{V_{OUT} \times \Delta T}$$

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- 8: Hysteresis voltage is referenced to V_R.

TEMPERATURE CHARACTERISTICS

Electrical Specifications: Unless otherwise indicated, $V_{IN} = V_R + 1.5V$, $I_L = 100 \mu A$, $C_L = 3.3 \mu F$, SHDN > V_{IH} , $T_A = +25$ °C. Conditions **Parameters** Sym Min Тур Max Units **Temperature Ranges** Specified Temperature Range -40 +125 °C (Note 1) T_A T_{J} °C Operating Temperature Range -40 +125 °C Storage Temperature Range T_A -65 +150 **Thermal Package Resistances** °C/W Thermal Resistance, 5L-DDPAK θ_{JA} 57 Thermal Resistance, 5L-TO-220 71 °C/W θ_{JA} Thermal Resistance, 8L-SOIC 163 °C/W θ_{JA}

Note 1: Operation in this range must not cause T_J to exceed Maximum Junction Temperature (+125°C).

2.0 TYPICAL PERFORMANCE CURVES

Note: The graphs and tables provided following this note are a statistical summary based on a limited number of samples and are provided for informational purposes only. The performance characteristics listed herein are not tested or guaranteed. In some graphs or tables, the data presented may be outside the specified operating range (e.g., outside specified power supply range) and therefore outside the warranted range.

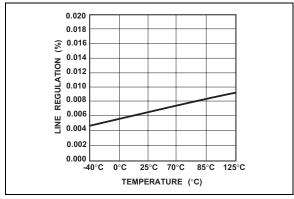
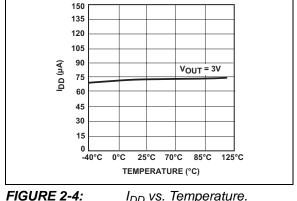


FIGURE 2-1: Line Regulation vs. Temperature.



I_{DD} vs. Temperature.

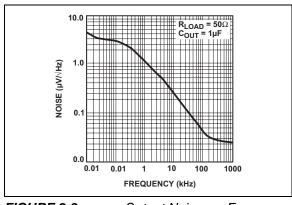


FIGURE 2-2: Output Noise vs. Frequency.

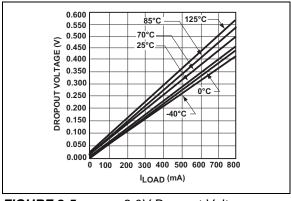


FIGURE 2-5: 3.0V Dropout Voltage vs. I_{LOAD}

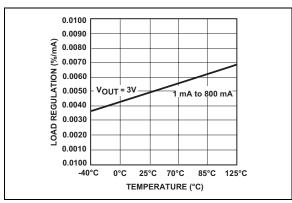


FIGURE 2-3: Load Regulation vs. Temperature.

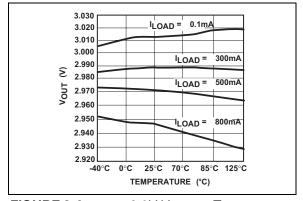


FIGURE 2-6: $3.0V\ V_{OUT}\ vs. Temperature.$

2.0 TYPICAL PERFORMANCE CURVES (CONT)

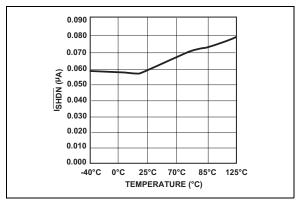


FIGURE 2-1: I_{SHDN} vs. Temperature.

3.0 PIN DESCRIPTIONS

The descriptions of the pins are listed in Table 3-1.

TABLE 3-1: PIN FUNCTION TABLE

Pin No. (8-Pin SOIC)	Pin No. (5-Pin DDPAK) (5-Pin TO-220)	Symbol	Description
1	5	V _{OUT}	Regulated voltage output
2	3	GND	Ground terminal
3	_	NC	No connect
4	1	BYPASS	Reference bypass input
5	_	ERROR	Out-of-Regulation Flag (open drain output)
6	2	SHDN	Shutdown control input
7	_	NC	No connect
8	4	V_{IN}	Unregulated supply input

3.1 Regulated Output Voltage (V_{OUT})

Regulated voltage output.

3.2 Ground (GND)

Ground terminal.

3.3 Reference Bypass (BYPASS)

Reference bypass input. Connecting a 470 pF to this input further reduces output noise.

3.4 Out-of-Regulation Flag (ERROR)

Out-of-regulation flag (open-drain output). This output goes low when V_{OUT} is out-of-tolerance by approximately -5%.

3.5 Shutdown Control (SHDN)

Shutdown control input. The regulator is fully enabled when a logic-high is applied to this input. The regulator enters shutdown when a logic-low is applied to this input. During shutdown, the output voltage falls to zero and the supply current is reduced to 0.05 μ A (typical).

3.6 Unregulated Supply (V_{IN})

Unregulated supply input.

4.0 DETAILED DESCRIPTION

The TC1265 is a precision, fixed-output LDO. Unlike bipolar regulators, the TC1265's supply current does not increase with load current. In addition, V_{OUT} remains stable and within regulation over the entire 0 mA to $I_{LOADMAX}$ load current range (an important consideration in RTC and CMOS RAM battery back-up applications).

Figure 4-1 shows a typical application circuit.

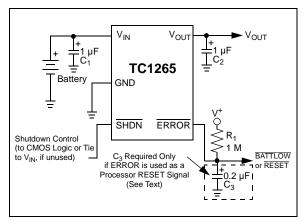


FIGURE 4-1: Typical Application Circuit.

4.1 Output Capacitor

A $1\,\mu F$ (min.) capacitor from $V_{\mbox{\scriptsize OUT}}$ to ground is required. The output capacitor should have an Effective Series Resistance (ESR) greater than 0.1Ω and less than 5Ω . A 1 µF capacitor should be connected from V_{IN} to GND if there is more than 10 inches of wire between the regulator and the AC filter capacitor, or if a battery is used as the power source. Aluminum electrolytic or tantalum capacitor types can be used. Since many aluminum electrolytic capacitors freeze at approximately -30°C, solid tantalums are recommended for applications operating below -25°C. When operating from sources other than batteries, supplynoise rejection and transient response can be improved by increasing the value of the input and output capacitors, and by employing passive filtering techniques.

4.2 ERROR Output

 $\overline{\text{ERROR}}$ is driven low whenever V_{OUT} falls out of regulation by more than – 5% (typ.). This condition may be caused by low input <u>voltage</u>, output current limiting, or thermal limiting. The $\overline{\text{ERROR}}$ threshold is 5% below rated V_{OUT} regardless of the programmed output voltage value (e.g., $\overline{\text{ERROR}} = V_{\text{OL}}$ at 4.75V (typ.) for a 5.0V regulator and 2.85V (typ.) for a 3.0V regulator). $\overline{\text{ERROR}}$ output operation is shown in Figure 4-2.

Note that $\overline{\mathsf{ERROR}}$ is active when $\mathsf{V}_{\mathsf{OUT}}$ is at or below V_{TH} and inactive when $\mathsf{V}_{\mathsf{OUT}}$ is above $\mathsf{V}_{\mathsf{TH}} + \mathsf{V}_{\mathsf{H}}$.

As shown in Figure 4-1, $\overline{\text{ERROR}}$ can be used as a battery low flag or as a processor $\overline{\text{RESET}}$ signal (with the addition of timing capacitor C₃). R₁ x C₃ should be chosen to maintain $\overline{\text{ERROR}}$ below V_{IH} of the processor $\overline{\text{RESET}}$ input for at least 200 ms to allow time for the system to stabilize. Pull-up resistor R₁ can be tied to V_{OUT}, V_{IN} or any other voltage less than (V_{IN} + 0.3V).

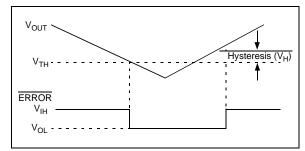


FIGURE 4-2: ERROR Output Operation.

5.0 THERMAL CONSIDERATIONS

5.1 Thermal Shutdown

Integrated thermal protection circuitry shuts the regulator off when die temperature exceeds 160°C. The regulator remains off until the die temperature drops to approximately 150°C.

5.2 Power Dissipation

The amount of power the regulator dissipates is primarily a function of input voltage, output voltage and output current. The following equation is used to calculate worst-case actual power dissipation:

EQUATION 5-1:

$$P_D = (V_{INMAX} - V_{OUTMIN})I_{LOADMAX}$$

Where:

P_D = Worst-case actual power dissipation

 V_{INMAX} = Maximum voltage on V_{IN}

V_{OUTMIN} = Minimum regulator output voltage

I_{LOADMAX} = Maximum output (load) current

The maximum allowable power dissipation (Equation 5-2) is a function of the maximum ambient temperature (T_{AMAX}), the maximum allowable die temperature (T_{JMAX}) and the thermal resistance from junction-to-air (θ_{JA}).

EQUATION 5-2:

Where:
$$P_{DMAX} = \frac{T_{JMAX} - T_{AMAX}}{\theta_{JA}}$$

P_D = Worst-case actual power dissipation

 V_{INMAX} = Maximum voltage on V_{IN}

V_{OUTMIN} = Minimum regulator output voltage

I_{LOADMAX} = Maximum output (load) current

Table 5-1 and Table 5-2 show various values of θ_{JA} for the TC1265 package types.

TABLE 5-1: THERMAL RESISTANCE
GUIDELINES FOR TC1265 IN
8-PIN SOIC PACKAGE

Copper Area (Topside)*	Copper Area (Backside)	Board Area	Thermal Resistance (θ_{JA})
2500 sq mm	2500 sq mm	2500 sq mm	60°C/W
1000 sq mm	2500 sq mm	2500 sq mm	60°C/W
225 sq mm	2500 sq mm	2500 sq mm	68°C/W
100 sq mm	2500 sq mm	2500 sq mm	74°C/W

^{*} Pin 2 is ground. Device is mounted on the top-side.

TABLE 5-2: THERMAL RESISTANCE
GUIDELINES FOR TC1265 IN
5-PIN DDPAK/TO-220
PACKAGE

Copper Area (Topside)*	Copper Area (Backside)	Board Area	Thermal Resistance (θ _{JA})	
2500 sq mm	2500 sq mm	2500 sq mm	25°C/W	
1000 sq mm	2500 sq mm	2500 sq mm	27°C/W	
125 sq mm	2500 sq mm	2500 sq mm	35°C/W	

^{*} Tab of device attached to top-side copper

Equation 5-1 can be used in conjunction with Equation 5-2 to ensure regulator thermal operation is within limits. For example:

Given:

 $\begin{array}{rcl} V_{\text{INMAX}} &=& 3.3 \text{V} \pm 10\% \\ V_{\text{OUTMIN}} &=& 2.7 \text{V} \pm 0.5\% \\ I_{\text{LOADMAX}} &=& 275 \text{ mA} \\ T_{\text{JMAX}} &=& 125^{\circ}\text{C} \\ T_{\text{AMAX}} &=& 95^{\circ}\text{C} \\ \theta_{\text{JA}} &=& 60^{\circ}\text{C/W} \text{ (SOIC)} \end{array}$

Find:

- 1. Actual power dissipation
- 2. Maximum allowable dissipation

Actual power dissipation:

$$\begin{split} P_D &\approx (V_{INMAX} - V_{OUTMIN}) I_{LOADMAX} \\ P_D &= (3.3 \times 1.1) - (2.7 \times .995) 275 \times 10^{-3} \\ P_D &= 260 \ mW \end{split}$$

Maximum allowable power dissipation:

$$P_{DMAX} = \frac{T_{JMAX} - T_{AMAX}}{\theta_{JA}}$$

$$P_{DMAX} = \frac{(125 - 95)}{60}$$

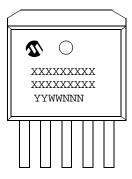
$$P_{DMAX} = 500 \text{ mW}$$

In this example, the TC1265 dissipates a maximum of 260 mW, below the allowable limit of 500 mW. In a similar manner, Equation 5-1 and Equation 5-2 can be used to calculate maximum current and/or input voltage limits. For example, the maximum allowable V_{IN} is found by substituting the maximum allowable power dissipation of 500 mW into Equation 5-1, from which $V_{INMAX} = 4.6 V$.

6.0 PACKAGING INFORMATION

6.1 **Package Marking Information**

5-Lead DDPAK



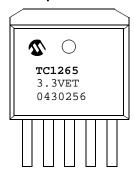
5-Lead TO-220



8-Lead SOIC (150 mil)



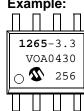
Example



Example:







Legend: XX...X Customer specific information*

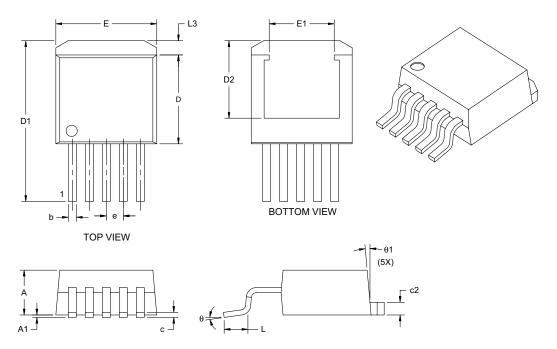
> YΥ Year code (last 2 digits of calendar year) WW Week code (week of January 1 is week '01')

NNN Alphanumeric traceability code

Note: In the event the full Microchip part number cannot be marked on one line, it will be carried over to the next line thus limiting the number of available characters for customer specific information.

Standard OTP marking consists of Microchip part number, year code, week code, and traceability code.

5-Lead Plastic (ET) (DDPAK)



	Units	INCHES*			M	MILLIMETERS		
Dimension	Limits	MIN	NOM	MAX	MIN	NOM	MAX	
Number of Pins			5			5		
Pitch	е		.067 BSC			1.70 BSC		
Overall Height	Α	.170	.177	.183	4.32	4.50	4.65	
Standoff §	A1	.000	.005	.010	0.00	0.13	0.25	
Overall Width	E	.385	.398	.410	9.78	10.11	10.41	
Exposed Pad Width	E1		.256 REF		6.50 REF			
Molded Package Length	D	.330	.350	.370	8.38	8.89	9.40	
Overall Length	D1	.549	.577	.605	13.94	14.66	15.37	
Exposed Pad Length	D2		.303 REF		7.75 REF			
Lead Thickness	С	.014	.020	.026	0.36	0.51	0.66	
Pad Thickness	c2	.045		.055	1.14		1.40	
Lead Width	b	.026	.032	.037	0.66	0.81	0.94	
Foot Length	L	.068	.089	.110	1.73	2.26	2.79	
Pad Length	L3	.045	-	.067	1.14	-	1.70	
Foot Angle	θ	-	-	8°		-	8°	
Mold Draft Angle	θ1	3°		7°	3°		7°	

^{*}Controlling Parameter

Notes:

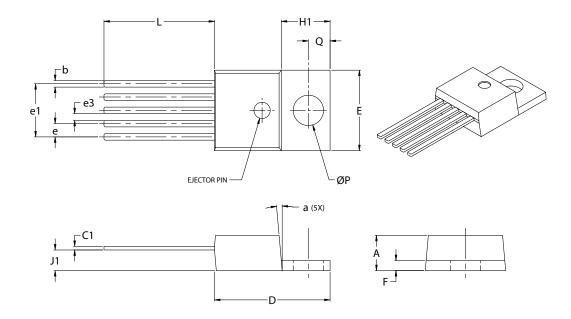
Dimensions D and E do not include mold flash or protrusions. Mold flash or protrusions shall not exceed .010" (0.254mm) per side.

JEDEC equivalent: TO-252

Drawing No. C04-012

[§] Significant Characteristic

5-Lead Plastic Transistor Outline (AT) (TO-220)



	INCHI	ES*	MILLIMETERS		
Dimension Lim	Dimension Limits		MAX	MIN	MAX
Lead Pitch	e	.060	.072	1.52	1.83
Overall Lead Centers	e1	.263	.273	6.68	6.93
Space Between Leads	e3	.030	.040	0.76	1.02
Overall Height	Α	.160	.190	4.06	4.83
Overall Width	E	.385	.415	9.78	10.54
Overall Length	D	.560	.590	14.22	14.99
Flag Length	H1	.234	.258	5.94	6.55
Flag Thickness	F	.045	.055	1.14	1.40
Through Hole Center	Q	.103	.113	2.62	2.87
Through Hole Diameter	Р	.146	.156	3.71	3.96
Lead Length	L	.540	.560	13.72	14.22
Base to Bottom of Lead	J1	.090	.115	2.29	2.92
Lead Thickness	C1	.014	.022	0.36	0.56
Lead Width	b	.025	.040	0.64	1.02
Mold Draft Angle	a	3°	7°	3°	7°

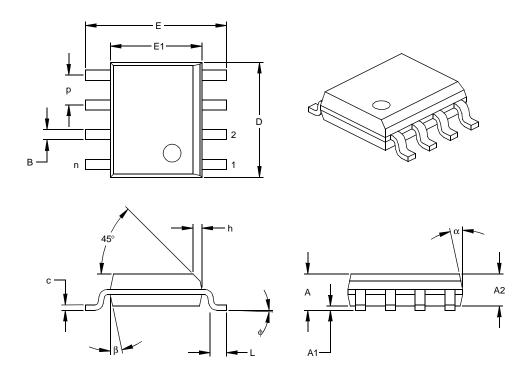
*Controlling Parameter

Notes:

Dimensions D and E1 do not include mold flash or protrusions. Mold flash or protrusions shall not exceed .010" (0.254mm) per side. JEDEC equivalent: TO-220

Drawing No. C04-036

8-Lead Plastic Small Outline (SN) - Narrow, 150 mil Body (SOIC)



	INCHES*			MILLIMETERS				
Dimension	Limits	MIN	NOM	MAX	MIN	NOM	MAX	
Number of Pins	n		8			8		
Pitch	р		.050			1.27		
Overall Height	Α	.053	.061	.069	1.35	1.55	1.75	
Molded Package Thickness	A2	.052	.056	.061	1.32	1.42	1.55	
Standoff §	A1	.004	.007	.010	0.10	0.18	0.25	
Overall Width	Е	.228	.237	.244	5.79	6.02	6.20	
Molded Package Width	E1	.146	.154	.157	3.71	3.91	3.99	
Overall Length	D	.189	.193	.197	4.80	4.90	5.00	
Chamfer Distance	h	.010	.015	.020	0.25	0.38	0.51	
Foot Length	L	.019	.025	.030	0.48	0.62	0.76	
Foot Angle	ф	0	4	8	0	4	8	
Lead Thickness	С	.008	.009	.010	0.20	0.23	0.25	
Lead Width	В	.013	.017	.020	0.33	0.42	0.51	
Mold Draft Angle Top	α	0	12	15	0	12	15	
Mold Draft Angle Bottom	β	0	12	15	0	12	15	

Dimensions D and E1 do not include mold flash or protrusions. Mold flash or protrusions shall not exceed

.010" (0.254mm) per side.
JEDEC Equivalent: MS-012
Drawing No. C04-057

^{*} Controlling Parameter § Significant Characteristic

PRODUCT IDENTIFICATION SYSTEM

To order or obtain information, e.g., on pricing or delivery, refer to the factory or the listed sales office.

PART NO.	x.xx xx xx	Examples:
Device	Voltage Package Tape and	a) TC1265-1.8VAT 1.8V LDO, TO-220-5 pkg.
	Option Reel	b) TC1265-2.5VAT 2.5V LDO, TO-220-5 pkg.
		c) TC1265-3.0VAT 3.0V LDO, TO-220-5 pkg.
		d) TC1265-3.3VAT 3.3V LDO, TO-220-5 pkg.
Device	TC1265 Fixed Output CMOS LDO with Shutdown	a) TC1265-1.8VETTR 1.8V LDO, DDPAK-5 pkg., Tape and Reel
Voltage Option:*	1.8V = 1.8V 2.5V = 2.5V	b) TC1265-2.5VETTR 2.5V LDO, DDPAK-5 pkg., Tape and Reel
	2.5V = 2.5V 3.0V = 3.0V 3.3V = 3.3V	c) TC1265-3.0VETTR 3.0V LDO, DDPAK-5 pkg., Tape and Reel
		d) TC1265-3.3VETTR 3.3V LDO, DDPAK-5 pkg.,
	* Other output voltages are available. Please contact your local Microchip sales office for details.	Tape and Reel
	local Microscrip cards office for details.	a) TC1265-1.8VOA 1.8V LDO, SOIC-8 pkg.
		b) TC1265-1.8VOATR 1.8V LDO, SOIC-8 pkg.,
Package	AT = Plastic (TO-220), 5-Lead	Tape and Reel
	ET = Plastic Transistor Outline (DDPAK), 5-Lead	c) TC1265-2.5VOA 2.5V LDO, SOIC-8 pkg.
	ETTR = Plastic Transistor Outline (DDPAK), 5-Lead, Tape and Reel	d) TC1265-2.5VOATR 2.5V LDO, SOIC-8 pkg.,
	OA = Plastic SOIC, (150 mil Body), 8-lead	Tape and Reel
	OATR = Plastic SOIC, (150 mil Body), 8-lead,	e) TC1265-3.0VOA 3.0V LDO, SOIC-8 pkg.
	Tape and Reel	f) TC1265-3.0VOATR 3.0V LDO, SOIC-8 pkg., Tape and Reel
<u> </u>		,
		, ,
		h) TC1265-3.3VOATR 3.3V LDO, SOIC-8 pkg., Tape and Reel

Sales and Support

Data Sheets

Products supported by a preliminary Data Sheet may have an errata sheet describing minor operational differences and recommended workarounds. To determine if an errata sheet exists for a particular device, please contact one of the following:

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Please specify which device, revision of silicon and Data Sheet (include Literature #) you are using.

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TC1265

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