



1A LOW DROPOUT ADJUSTABLE AND FIXED-MODE REGULATOR WITH ENABLE

Description

The AP7361C is a 1A, adjustable and fixed output voltage, ultra-low dropout linear regulator with enable. The device includes pass element, error amplifier, band-gap reference, current limit and thermal shutdown circuitry. The device is turned on when EN pin is set to logic high level.

The characteristics of the low dropout voltage and low quiescent current make it suitable for low to medium power applications, for example, laptop computers, audio and video applications and battery powered devices. The typical quiescent current is approximately $60\mu A$. Built-in current-limit and thermal-shutdown functions prevent IC from damage in fault conditions.

The AP7361C is available in U-DFN3030-8, SOT89-5, SOT223, TO252 and SO-8EP packages.

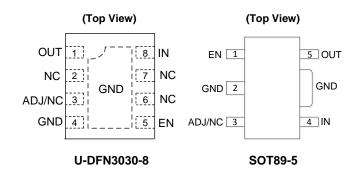
Features

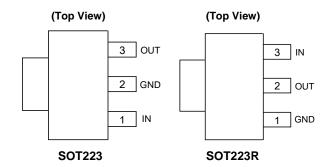
- Wide Input Voltage Range: 2.2V to 6.0V
- Output Voltage Accuracy: ±1%
- Very Low Dropout Voltage (3.3V): 360mV at 1A Typical
- Low Quiescent Current (I_Q): 60µA Typical
- Adjustable Output Voltage Range: 0.8V to 5.0V
- Fixed Output Options: 1.0V, 1.2V, 1.5V, 1.8V, 2.5V, 2.8V and 3.3V
- High PSRR: 75dB @ 1kHz
- Current Limit: 1.5A
- Fold-Back Short Circuit Protection: 200mA
- Thermal Shutdown Protection
- Stable with MLCC, E-Cap, Tan-Cap or Solid Capacitor ≥ 2.2µF
- Ambient Temperature Range: -40°C to +85°C
- Available in "Green" Molding Compound (No Br, Sb)
- Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

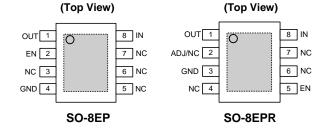
Applications

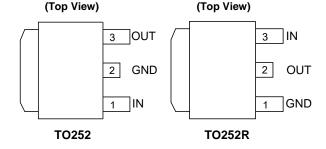
- LCD-TV, Monitor
- Set-Top-Box
- Home Electrical Appliances

Pin Assignments







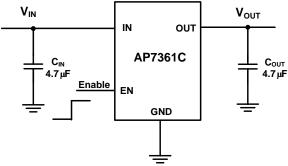


Notes:

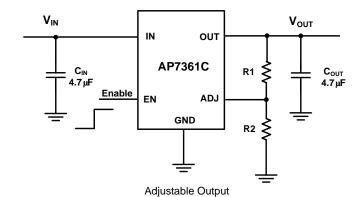
- 1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant.
- 2. See http://www.diodes.com/quality/lead_free.html for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

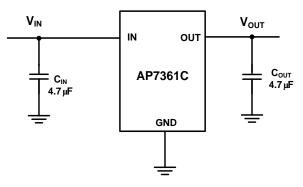


Typical Applications Circuit



Fixed Version with EN





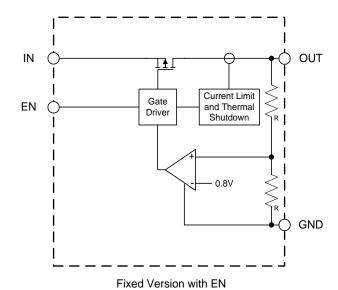
Fixed Version without EN

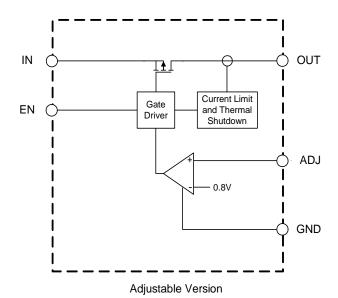
Pin Descriptions

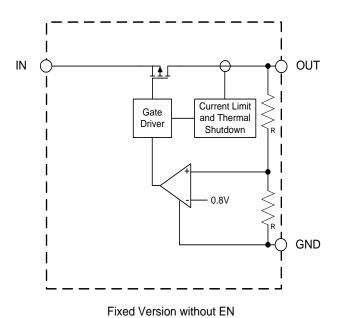
	Pin Number					Pin	Function		
U-DFN3030-8	SOT89-5	TO252	TO252R	SOT223	SOT223R	SO-8EP	SO-8EPR	Name	Function
8	4	1	3	1	3	8	8	IN	The input of the regulator. Bypass to ground through at least 1µF ceramic capacitor.
1	5	3	2	3	2	1	1	OUT	The output of the regulator. Bypass to ground through at least 2.2µF ceramic capacitor. For improved ac load response a larger capacitor is recommended.
4	2	2	1	2	1	4	3	GND	Ground
3	3	1	-	-	-	-	2	ADJ/NC	Adjustable voltage version only – a resistor divider from this pin to the OUT pin and ground sets the output voltage.
5	1	_	_	-	-	2	5	EN	Enable input, active high
2, 6, 7	_	-	_	-	_	3, 5, 6, 7	4, 6, 7	NC	No connection



Functional Block Diagram









Absolute Maximum Ratings (@T_A = +25°C, unless otherwise specified.) (Note 4)

Symbol	Paramete	r	Rating	Unit	
V _{IN}	Input Voltage		6.5	V	
_	OUT, ADJ, EN Voltage		V _{IN} +0.3	V	
TJ	Operating Junction Temperature Rang	е	-40 to +150	°C	
T _{STG}	Storage Temperature Range		-65 to +150	°C	
P _D	Power Dissipation		Internally limited by maximum junction temperature of +150°C	_	
		U-DFN3030-8	1700		
		TO252	1250		
P_D	Power Dissipation	SOT223	1100	mW	
		SOT89-5	800		
		SO-8EP	1190		
ESD HBM	Human Body Model ESD Protection		> 2	KV	
ESD MM	Machine Model ESD Protection (Note	5)	> 200	V	

Notes:

- 4. Stresses greater than the 'Absolute Maximum Ratings' specified above may cause permanent damage to the device. These are stress ratings only; functional operation of the device at these or any other conditions exceeding those indicated in this specification is not implied. Device reliability may be affected by exposure to absolute maximum rating conditions for extended periods of time.
- 5. ESD MM rating at 150V for EN pin in SOT89-5 package.

Recommended Operating Conditions (@T_A = +25°C, unless otherwise specified.)

Symbol	Parameter	Min	Max	Unit
V _{IN}	Input Voltage	2.2	6.0	V
V _{OUT}	Output Voltage	0.8	5.0	V
Гоит	Output Current (Note 6)	0	1.0	А
T _A	Operating Ambient Temperature	-40	+85	°C

Note:

6. The device maintains a stable, regulated output voltage without a load current. When the output current is large, attention should be given to the limitation of the package power dissipation.



$\textbf{Electrical Characteristics} \ (@T_A = +25^{\circ}C, \ V_{IN} = V_{OUT} + 1 \text{V}, \ C_{IN} = \underline{4.7 \mu\text{F}}, \ C_{OUT} = 4.7 \mu\text{F}, \ V_{EN} = V_{IN}, \ unless \ otherwise \ specified.)$

Symbol	Parameter	Test Conditions		Min	Тур	Max	Unit
V _{REF}	FB Reference Voltage, ADJ pin	I _{OUT} = 10mA, T _A = +25°C	:	0.792	0.8	0.808	V
I _{ADJ}	ADJ Pin Leakage Current	_		-	0.1	0.5	μA
IQ	Input Quiescent Current	Enabled, I _{OUT} = 0A		-	60	80	μA
I _{SHDN}	Input Shutdown Current	$V_{EN} = 0V$, $I_{OUT} = 0A$		-1	0.05	1	μA
V	Output Voltage Aggureev	I _{OUT} = 100mA,	1.0V≤V _{OUT} <1.5V	V _{OUT} (s)- 0.015	V _{OUT} (s)	V _{OUT} (s)+0 .015	٧
Vouт	Output Voltage Accuracy	T _A = +25°C	1.5 V≤V _{OUT} ≤3.5V	V _{OUT} (s)*0.99	V _{OUT} (s)	V _{OUT} (s)*1 .01	V
ΔV OUT	Line Regulation	$V_{IN} = V_{OUT} + 1V \text{ to } 5.5V,$	T _A = +25°C	_	0.01	0.1	%/V
$\Delta V_{IN} \times V_{OUT}$	Line Regulation	I _{OUT} = 100mA	-40°C ≤T _A ≤ +85°C	_	-	0.2	%/V
ΔV _{OUT} / V _{OUT}	Load Regulation	I _{OUT} from 1mA to 1A		-1.0	-	1.0	%
			1.0V≤V _{OUT} <1.1V	-	710	750	
			1.1V≤V _{OUT} <1.2V	_	600	640	
			1.2V≤V _{OUT} <1.3V	_	500	540	
		I _{OUT} =300mA	1.3V≤V _{OUT} <1.4V	_	400	440	
			1.4V≤V _{OUT} <1.5V	_	300	340	
	Dropout Voltage (Note 7)		1.5V≤V _{OUT} <2.6V	_	200	250	m∨
			2.6V≤V _{OUT} ≤3.5V	_	100	150	
$V_{DROPOUT}$		I _{OUT} =1A	1.0V≤V _{OUT} <1.1V	_	840	_	
• DROPOUT			1.1V≤V _{OUT} <1.2V	_	780	_	
			1.2V≤V _{OUT} <1.3V	_	700	_	
			1.3V≤V _{OUT} <1.4V	_	650	_	
			1.4V≤V _{OUT} <1.5V	_	600	_	
			1.5V≤V _{OUT} <2.0V	_	570		
			2.0V≤V _{OUT} <2.6V	_	440	_	
				_		_	
V _v .	EN Input Logic Low Voltage		2.6V≤V _{OUT} ≤3.5V	0	360	0.3	V
VIL		<u>-</u>		1.0		+	V
V _{IH}	EN Input Logic High Voltage EN Pull-Down Resistor	<u>-</u>		-	- 2.0	V _{IN}	MΩ
R _{ENPD}	EN Input Leakage Current			-0.1	3.0	0.1	μΑ
I _{EN}	Output Discharge Resistor	$V_{IN} = 5.5V$, $V_{EN} = 0V$ $V_{OL} = 1V$		-0.1	100	0.1	Ω
R _{PD}	Maximum Output Current			1.0	100	_	A
<u> </u>	Current Limit	$V_{IN} = V_{OUT} + 1V$	2.21/\		1.5	_	
I _{LIMIT}	Short-Circuit Current	$V_{IN} = V_{OUT} + 1V(V_{IN MINI=})$,	1.1	1.5 400	_	Α
I _{SHORT}		$V_{IN} = V_{OUT} + 1V$, Output	Voltage < 15% Vout	_	75	-	mA
PSRR	Power Supply Rejection Ratio (Note 8)	f = 1kHz, I _{OUT} = 100mA		_		_	dB
	Start-Up Time	$f = 10kHz, I_{OUT} = 100mA$	· D 000	_	55	_	
t _{ST}		$V_{OUT} = 3V$, $C_{OUT} = 2.2\mu F$, KL = 30Ω	_	150	_	μs
$\frac{\Delta V_{OUT}}{\Delta T_{A} \times V_{OUT}}$	Output Voltage Temperature Coefficient	$I_{OUT} = 100$ mA, -40 °C $\leq T_A \leq +85$ °C		_	±100	_	ppm/°C
T _{SHDN}	Thermal Shutdown Threshold			_	150	_	°C
T _{HYS}	Thermal Shutdown Hysteresis	_		_	20	_	°C
		U-DFN3030-8 (Note 9)		-	70	_	°C/W
	Thermal Resistance Junction-to-	TO252 (Note 9)		-	95	_	
θ_{JA}	Ambient	SOT223 (Note 9)		_	110	_	
		SOT89-5 (Note 9)		_	150	_	
		SO-8EP (Note 9)	_	100	_		

Notes:

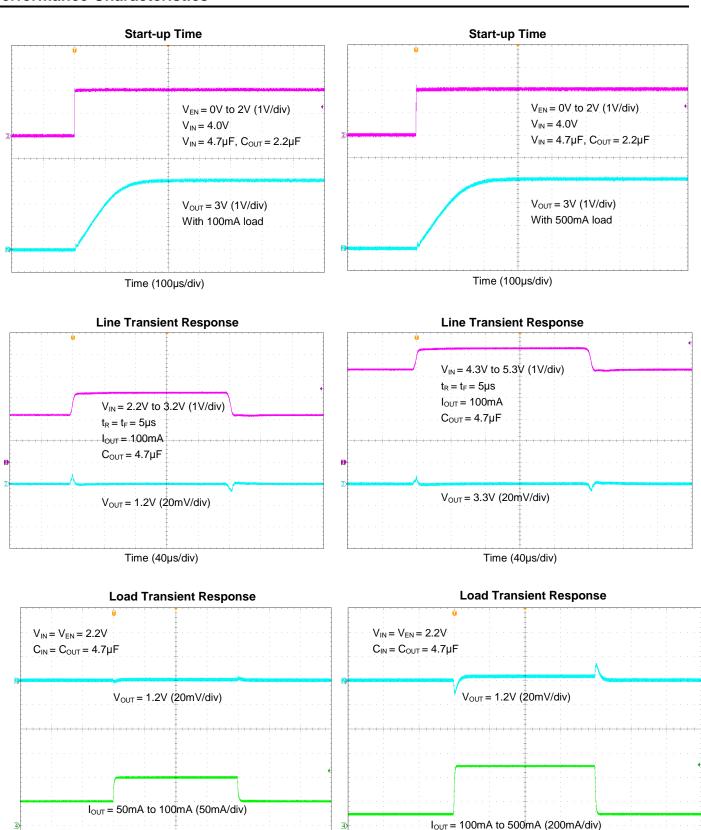
^{7.} Dropout voltage is the voltage difference between the input and the output at which the output voltage drops 2% below its nominal value. This parameter only applies to output voltages above 1.2V since minimum V_{IN} = 2.2V.

8. For V_{IN} ≥ 2.5V and V_{IN} = V_{OUT} +1V. For V_{IN} < 2.5V, the PSRR performance may be reduced.

9. Test condition: U-DFN3030-8, SO-8EP devices are mounted on 2"x2", FR-4 substrate PCB, with minimum recommended pad on top layer and thermal vias to bottom layer ground plane. TO252 devices are mounted on 2"x2" FR-4 substrate PC board, 2oz copper, with minimum recommended pad layout. For SOT223, the device is mounted on FR-4 substrate PC board, with minimum recommended pad layout. SOT89-5 devices are mounted on 1"x1" FR-4 substrate PC board, with minimum recommended pad layout. substrate PC board, with minimum recommended pad layout.



Performance Characteristics



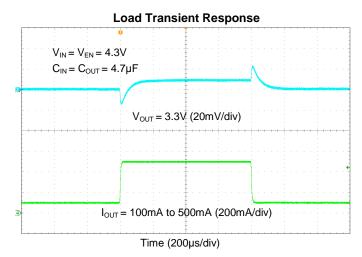
Time (200µs/div)

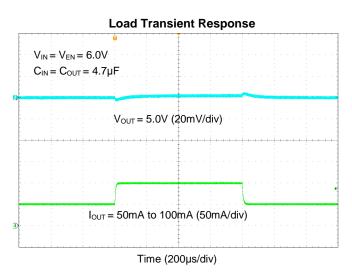
Time (200µs/div)

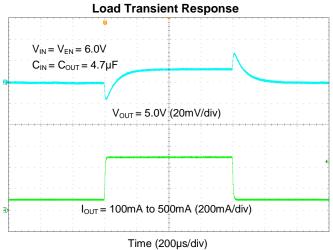


Performance Characteristics (cont.)

Load Transient Response $V_{\text{IN}} = V_{\text{EN}} = 4.3V$ $C_{\text{IN}} = C_{\text{OUT}} = 4.7 \mu \text{F}$ $V_{\text{OUT}} = 3.3V \text{ (20mV/div)}$ $I_{\text{OUT}} = 50 \text{mA to } 100 \text{mA (50mA/div)}$ $Time \text{ (200} \mu \text{s/div)}$

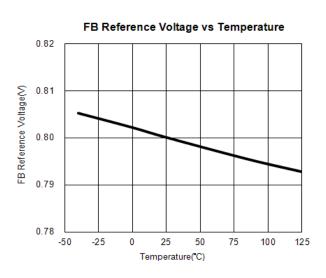


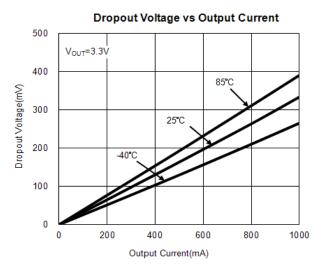


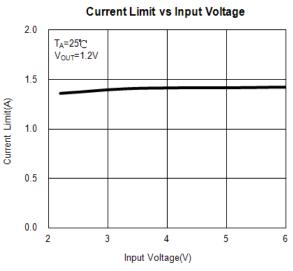


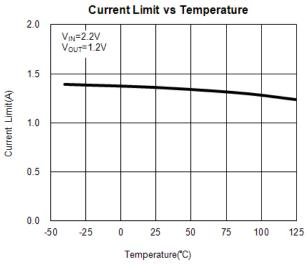


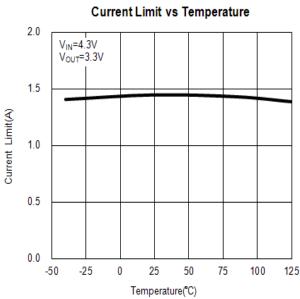
Performance Characteristics (Cont.)

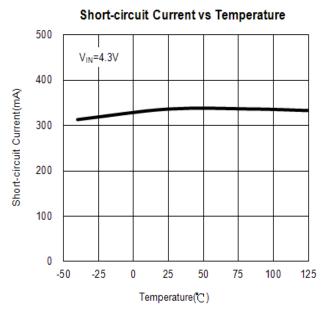






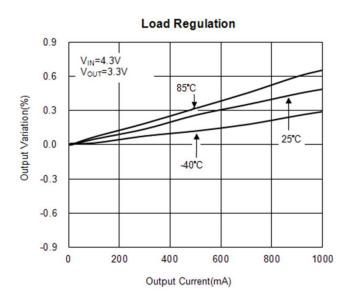


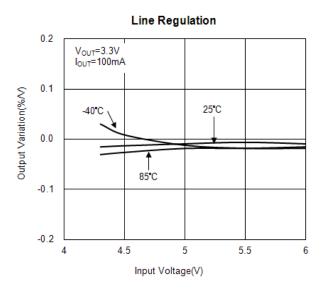


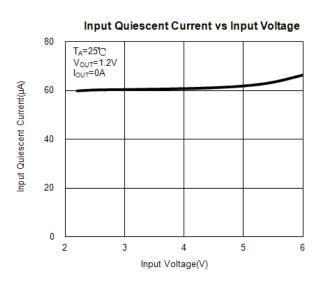


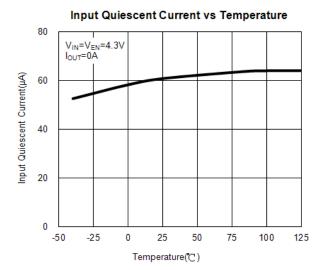


Performance Characteristics (Cont.)



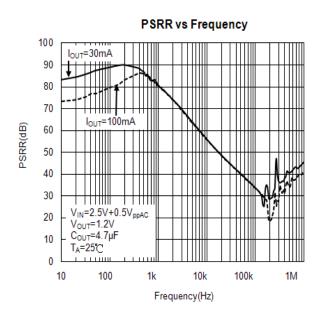


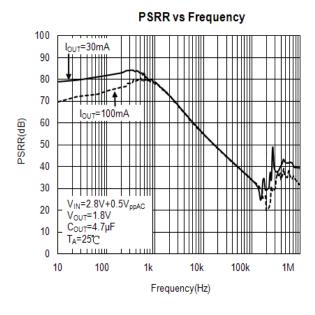


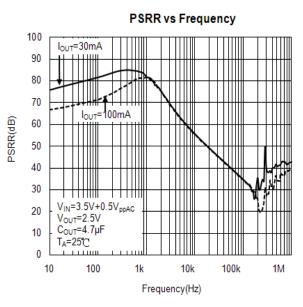


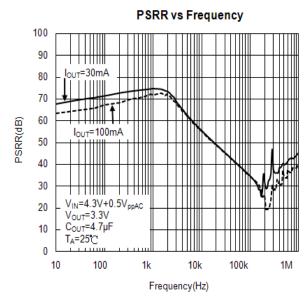


Performance Characteristics (Cont.)









Application Information

Input Capacitor

A 1µF ceramic capacitor is recommended between IN and GND pins to decouple input power supply glitch and noise. The amount of the capacitance may be increased without limit. This input capacitor must be located as close as possible to the device to assure input stability and reduce noise. For PCB layout, a wide copper trace is required for both IN and GND pins. A lower ESR capacitor type allows the use of less capacitance, while higher ESR type requires more capacitance.

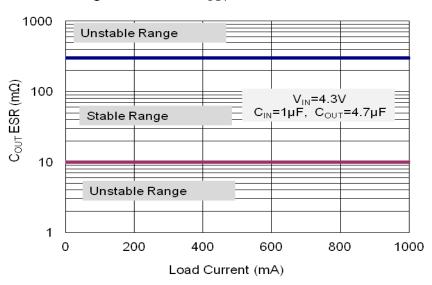
Output Capacitor

The output capacitor is required to stabilize and improve the transient response of the LDO. The AP7361C is stable with very small ceramic output capacitors. Using a ceramic capacitor value that is at least $2.2\mu F$ with $10m\Omega \le ESR \le 300m\Omega$ on the output ensures stability. Higher capacitance values help to improve line and load transient response. The output capacitance may be increased to keep low undershoot and overshoot. Output capacitor must be placed as close as possible to OUT and GND pins.



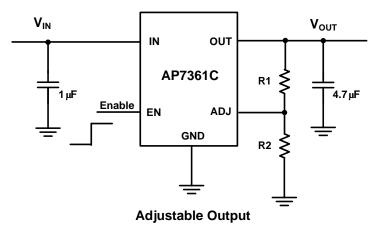
Application Information (Cont.)

Region of Stable C_{OUT} ESR vs. Load Current



Adjustable Operation

The AP7361C provides output voltage from 0.8V to 5.0V through external resistor divider as shown below.



The output voltage is calculated by:

$$V_{\text{OUT}} = V_{\text{REF}} \left(1 + \frac{R_1}{R_2} \right)$$

Where $V_{REF} = 0.8V$ (the internal reference voltage)

Rearranging the equation will give the following that is used for adjusting the output to a particular voltage:

$$R1 = R2 \left(\frac{V_{OUT}}{V_{REF}} - 1 \right)$$

To maintain the stability of the internal reference voltage, R2 needs to be kept smaller than $80k\Omega$.



Application Information (Cont.)

No Load Stability

Other than external resistor divider, no minimum load is required to keep the device stable. The device will remain stable and regulated in no load condition.

ON/OFF Input Operation

The ON/OFF feature is not available in the SOT223 and TO252 packages.

The AP7361C is turned on by setting the EN pin high, and is turned off by pulling it low. If this feature is not used, the EN pin should be tied to IN pin to keep the regulator output on at all time. To ensure proper operation, the signal source used to drive the EN pin must be able to swing above and below the specified turn-on/off voltage thresholds listed in the Electrical Characteristics section under V_{IL} and V_{IH} .

Current Limit Protection

When output current at OUT pin is higher than current limit threshold, the current limit protection will be triggered and clamp the output current to prevent over-current and to protect the regulator from damage due to overheating.

Short Circuit Protection

When OUT pin is short-circuit to GND, short circuit protection will be triggered and clamp the output current to approximately 200mA. Full current is restored when the output voltage exceeds 15% of V_{OUT}. This feature protects the regulator from over-current and damage due to overheating.

Thermal Shutdown Protection

Thermal protection disables the output when the junction temperature rises to approximately +150°C, allowing the device to cool down. When the junction temperature reduces to approximately +130°C the output circuitry is enabled again. Depending on power dissipation, thermal resistance, and ambient temperature, the thermal protection circuit may cycle on and off. This cycling limits the heat dissipation of the regulator, protecting it from damage due to overheating.

Ultra Fast Start-up

After enabled, the AP7361C is able to provide full power in as little as tens of microseconds, typically 200µs, without sacrificing low ground current. This feature will help load circuitry move in and out of standby mode in real time, eventually extend battery life for mobile phones and other portable devices.

Low Quiescent Current

The AP7361C, consuming only around 60µA for all input range, provides great power saving in portable and low power applications.

Power Dissipation

The device power dissipation and proper sizing of the thermal plane that is connected to the thermal pad is critical to avoid thermal shutdown and ensure reliable operation. Power dissipation of the device depends on input voltage and load conditions and can be calculated by:

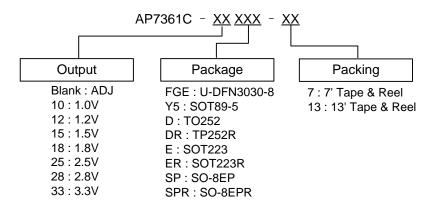
$$P_D = (V_{IN} - V_{OUT}) \times I_{OUT}$$

The maximum power dissipation, handled by the device, depends on the maximum junction to ambient thermal resistance, maximum ambient temperature, and maximum device junction temperature, which can be calculated by the equation in the following:

$$P_{D}(\text{max@T}_{A}) = \frac{(+150^{\circ}\text{C} - \text{T}_{A})}{R_{\theta \text{JA}}}$$



Ordering Information



Part Number	Backago Codo	Packaging	7"/13" Tape and Reel	
Part Number	Package Code	Packaging	Quantity	Part Number Suffix
AP7361C-XXFGE-7	FGE	U-DFN3030-8	3000/Tape & Reel	-7
AP7361C-XXY5-13	Y5	SOT89-5	2500/Tape & Reel	-13
AP7361C-XXD-13	D	TO252	2500/Tape & Reel	-13
AP7361C-XXDR-13	DR	TO252R	2500/Tape & Real	-13
AP7361C-XXE-13	Е	SOT223	2500/Tape & Reel	-13
AP7361C-XXER-13	ER	SOT223R	2500/Tape & Reel	-13
AP7361C-XXSP-13	SP	SO-8EP	2500/Tape & Reel	-13
AP7361C-XXSPR-13	SPR	SO-8EPR	2500/Tape & Reel	-13



Marking Information

(1) U-DFN3030-8

(Top View)

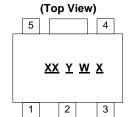
XX $\underline{Y}\underline{W}\underline{X}$

XX : Identification Code
Y : Year : 0~9
W : Week : A~Z : 1~26 week;
a~z : 27~52 week; z represents

52 and 53 week X: Internal Code

Device	Package	Identification Code
AP7361C-ADJ	U-DFN3030-8	SH
AP7361C-10	U-DFN3030-8	SJ
AP7361C-12	U-DFN3030-8	SK
AP7361C-15	U-DFN3030-8	SV
AP7361C-18	U-DFN3030-8	SW
AP7361C-25	U-DFN3030-8	SX
AP7361C-28	U-DFN3030-8	SY
AP7361C-33	U-DFN3030-8	SZ

(2) SOT89-5



XX: Identification Code
Y: Year: 0~9
W: Week: A~Z: 1~26 week;
a~z: 27~52 week;

z represents 52 and 53 week X: Internal Code

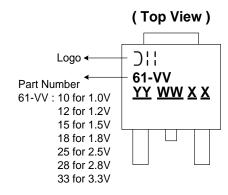
Device	Package	Identification Code
AP7361C-ADJ	SOT89-5	KR
AP7361C-10	SOT89-5	KS
AP7361C-12	SOT89-5	KT
AP7361C-15	SOT89-5	KU
AP7361C-18	SOT89-5	KV
AP7361C-25	SOT89-5	KW
AP7361C-28	SOT89-5	KX
AP7361C-33	SOT89-5	KZ



Marking Information (Cont.)

(3) TO252

Pin 1: IN, Pin 2: GND, Pin 3: OUT



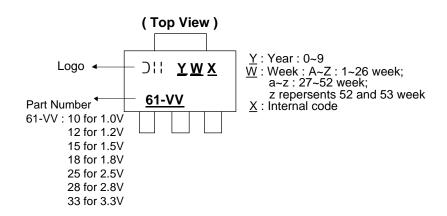
YY: Year: 01~09

WW: Week: 01~52, 52 represents

52 and 53 week XX: Internal Code

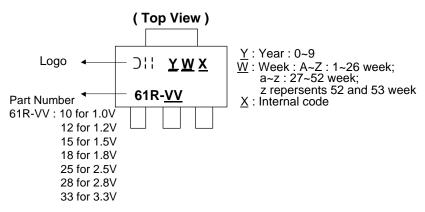
(4) SOT223

Pin 1: IN, Pin 2: GND, Pin 3: OUT



(5) SOT223R

Pin 1: GND, Pin 2: OUT, Pin 3: IN

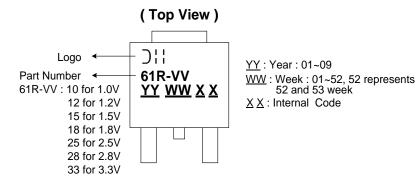




Marking Information (Cont.)

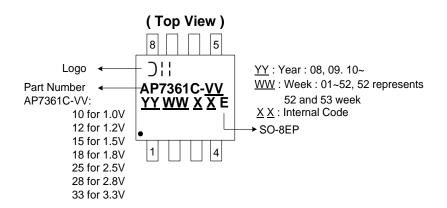
(6) TO252-R

Pin 1: GND, Pin 2: OUT, Pin 3: IN



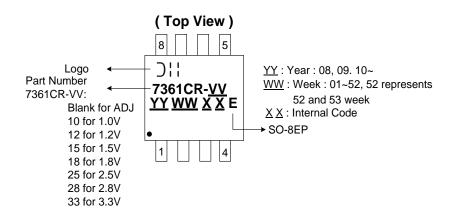
(7) SO-8EP

Pin 1: OUT, Pin 2: EN, Pins 3, 5, 6 and 7: NC, Pin 4: GND, Pin 8: IN



(8) SO-8EPR

Pin 1: OUT, Pin 2: ADJ/NC, Pin 3: GND, Pins 4, 6 and 7: NC, Pin 5: EN, Pin 8: IN

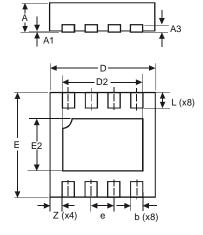




Package Outline Dimensions (All dimensions in mm.)

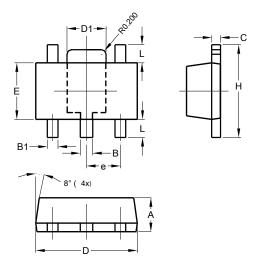
Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for the latest version.

(1) Package Type: U-DFN3030-8 (Type E)



	U-DFN3030-8 Type E						
Dim	Dim Min Max Typ						
Α	0.57	0.63	0.60				
A1	0	0.05	0.02				
A3	1	-	0.15				
b	0.20	0.30	0.25				
D	2.95	3.05	3.00				
D2	2.15	2.35	2.25				
E	2.95	3.05	3.00				
е	1	-	0.65				
E2	1.40	1.60	1.50				
L	0.30	0.60	0.45				
Ζ	_	_	0.40				
All I	Dimens	sions ir	mm				

(2) Package Type: SOT89-5



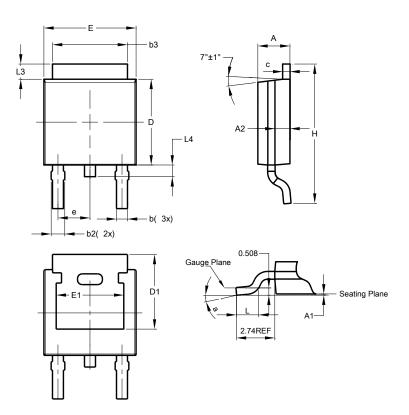
SOT89-5						
Dim	Min	Max	Тур			
Α	1.40	1.60	1.50			
В	0.50	0.62	0.56			
B1	0.44	0.54	0.48			
C	0.35	0.43	0.38			
D	4.40	4.60	4.50			
D1	1.62	1.83	1.733			
Е	2.40	2.60	2.50			
е	-	-	1.50			
Н	3.95	4.25	4.10			
L	0.65	0.95	0.80			
All	Dimens	ions in	mm			



Package Outline Dimensions (Cont.) (All dimensions in mm.)

Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for the latest version.

(3) Package Type: TO252 (DPAK)



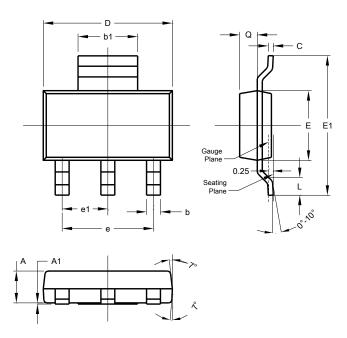
	TO252 (DPAK)						
Dim	Min	Max	Тур				
Α	2.19	2.39	2.29				
A1	0.00	0.13	0.08				
A2	0.97	1.17	1.07				
b	0.64	0.88	0.783				
b2	0.76	1.14	0.95				
b3	5.21	5.46	5.33				
С	0.45	0.58	0.531				
D	6.00	6.20	6.10				
D1	5.21	-	-				
е	-	-	2.286				
Е	6.45	6.70	6.58				
E1	4.32	-	-				
Н	9.40	10.41	9.91				
L	1.40	1.78	1.59				
L3	0.88	1.27	1.08				
L4	0.64	1.02	0.83				
а	0°	10°	-				
All	Dimen	sions ii	n mm				



Package Outline Dimensions (Cont.) (All dimensions in mm.)

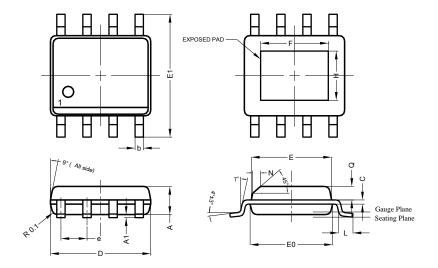
Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for the latest version.

(4) Package Type: SOT223



	SOT223						
Dim	Min	Max	Тур				
Α	1.55	1.65	1.60				
A1	0.010	0.15	0.05				
b	0.60	0.80	0.70				
b1	2.90	3.10	3.00				
С	0.20	0.30	0.25				
D	6.45	6.55	6.50				
E	3.45	3.55	3.50				
E1	6.90	7.10	7.00				
е	-	-	4.60				
e1	-	-	2.30				
L	0.85	1.05	0.95				
Q	0.84	0.94	0.89				
All [Dimens	ions in	mm				

(5) Package Type: SO-8EP



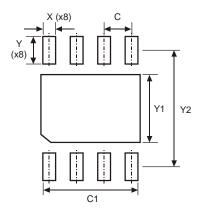
SO-8EP						
Dim	Min	Max	Тур			
Α	1.40	1.50	1.45			
A1	0.00	0.13	-			
b	0.30	0.50	0.40			
C	0.15	0.25	0.20			
D	4.85	4.95	4.90			
E	3.80	3.90	3.85			
E0	3.85	3.95	3.90			
E1	5.90	6.10	6.00			
е	-	•	1.27			
F	2.75	3.35	3.05			
H	2.11	2.71	2.41			
L	0.62	0.82	0.72			
Z	-	1	0.35			
Q	0.60	0.70	0.65			
All Di	mensi	ons in	mm			



Suggested Pad Layout

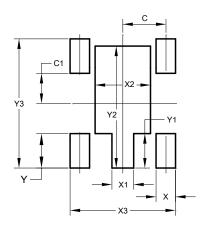
Please see AP02001 at http://www.diodes.com/datasheets/ap02001.pdf for the latest version.

(1) Package Type: U-DFN3030-8 (Type E)



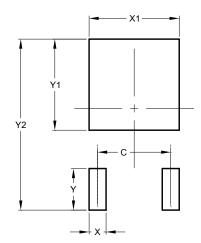
Dimensions	Value (in mm)
С	0.65
C1	2.35
Х	0.30
Y	0.65
Y1	1.60
Y2	2.75

(2) Package Type: SOT89-5



Dimensions	Value
Dimensions	(in mm)
С	1.500
C1	1.050
Х	0.680
X1	0.760
X2	1.930
Х3	3.680
Υ	1.200
Y1	1.200
Y2	4.250
Y3	4.500

(3) Package Type: TO252 (DPAK)



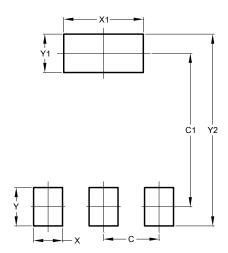
Dimensions	Value (in mm)
С	4.572
Х	1.060
X1	5.632
Υ	2.600
Y1	5.700
Y2	10 700



Suggested Pad Layout (Cont.)

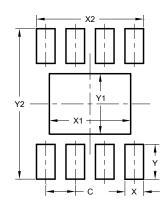
Please see AP02001 at http://www.diodes.com/datasheets/ap02001.pdf for the latest version.

(4) Package Type: SOT223



Dimensions	Value (in mm)
С	2.30
C1	6.40
Х	1.20
X1	3.30
Υ	1.60
Y1	1.60
Y2	8.00

(5) Package Type: SO-8EP



Dimensions	Value (in mm)
C	1.270
Х	0.802
X1	3.502
X2	4.612
Y	1.505
Y1	2.613
V2	6 500



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