

Typical Application Circuit

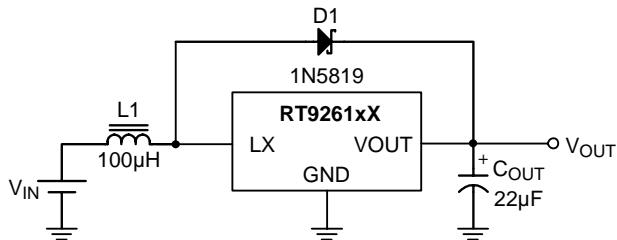


Figure 1

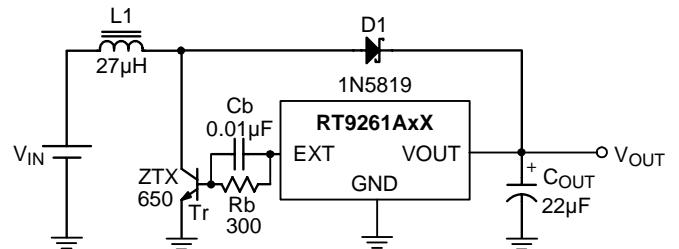


Figure 2

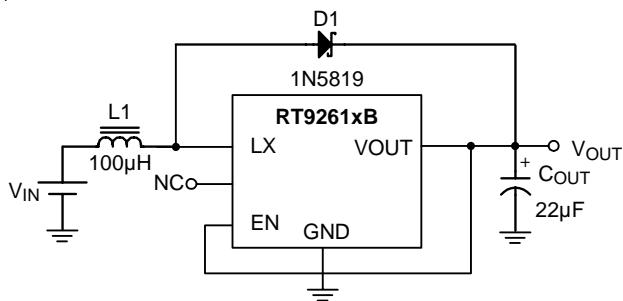


Figure 3

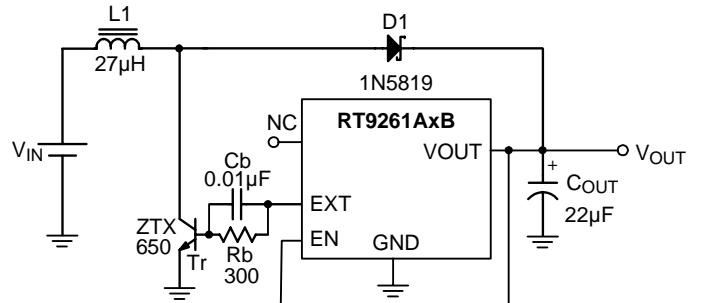


Figure 4

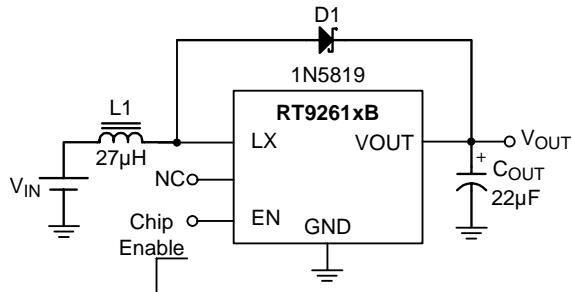
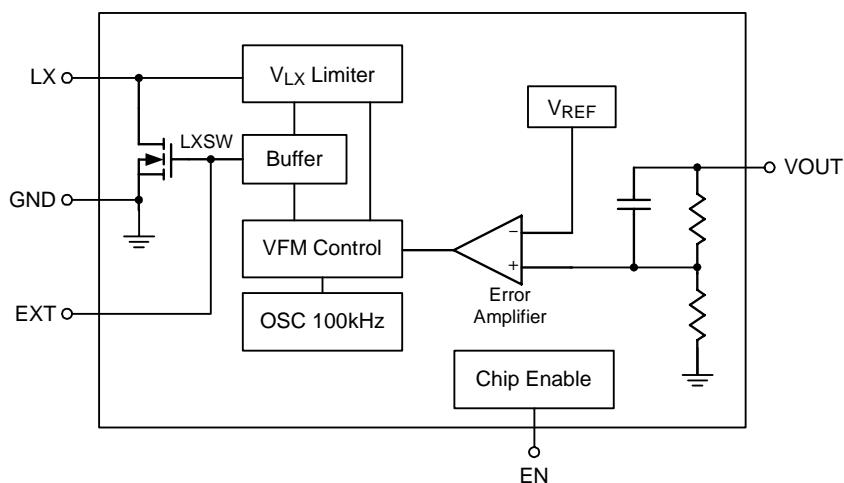


Figure 5

Functional Pin Description

Pin No.				Pin Name	Pin Function
RT9261-□□□X	RT9261A-□□□X	RT9261-□□□B	RT9261A-□□□B		
1	1	4	4	GND	Ground.
2	2	2	2	VOUT	Output Voltage.
3	--	5	--	LX	Pin for Switching.
--	3	--	5	EXT	Drive External Device.
--	--	1	1	EN	Chip Enable (Active High).
--	--	3	3	NC	No Internal Connected.

Function Block Diagram



Notes:

- (1) LX Pin..... only for 9261-□□xX and 9261-□□xB
- (2) EXT Pin.... only for 9261A-□□xX and 9261A-□□xB
- (3) EN Pin..... only for 9261-□□xB and 9261A-□□xB

Electrical Characteristics (Refer to Figure 2)

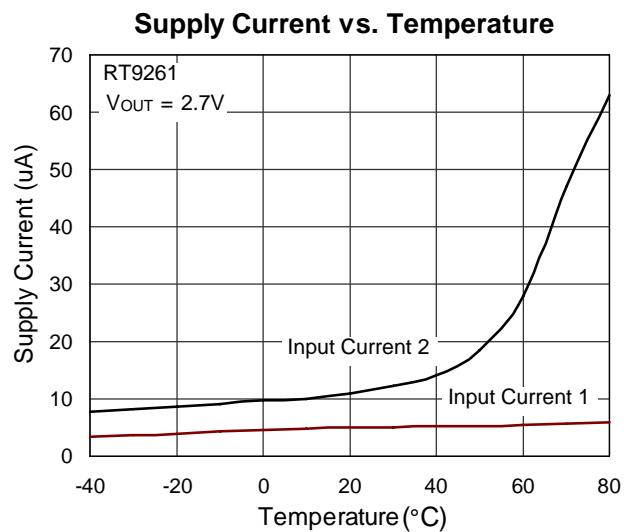
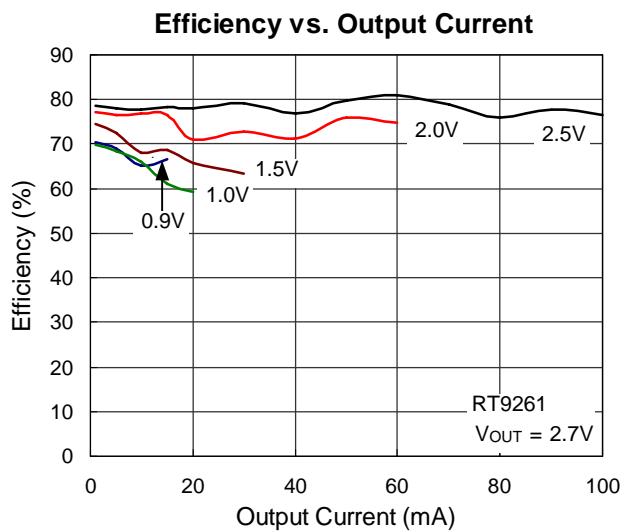
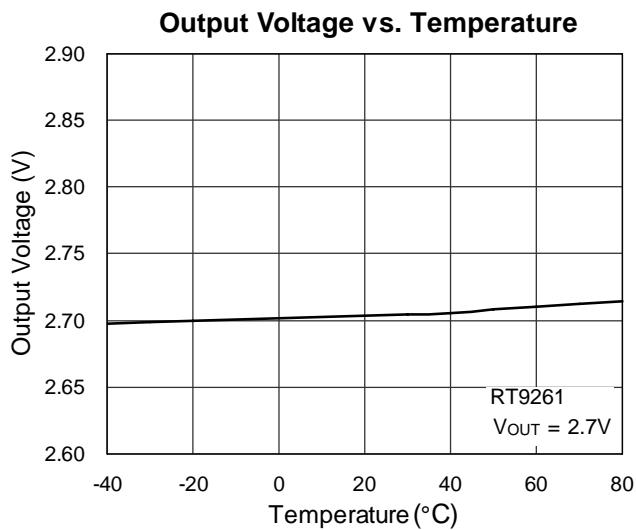
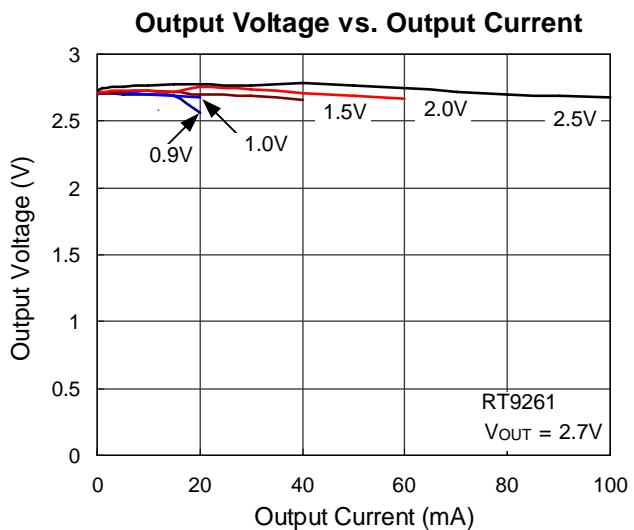
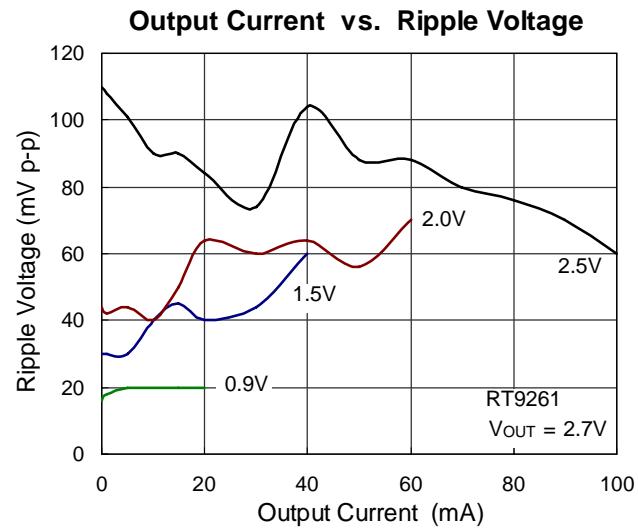
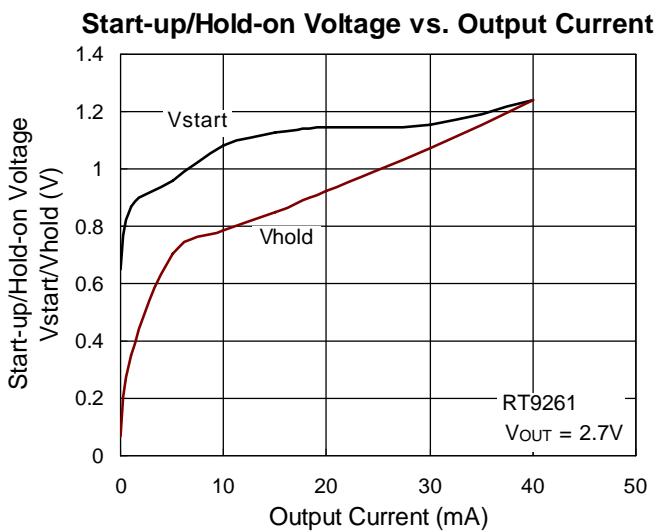
Parameter	Symbol	Test Conditions		Min	Typ	Max	Unit
Output Voltage Accuracy	ΔV_{OUT}			-2	--	+2	%
Input Voltage	V_{IN}			--	--	7	V
Start-up Voltage	V_{ST}	$I_{OUT} = 1\text{mA}$, $V_{IN} : 0 \rightarrow 2\text{V}$		--	0.85	1.0	V
Input Current 1		V_{IN} at no load	$V_{OUT} \leq 3.5\text{V}$ ⁽¹⁾	--	30	50	μA
			$3.5\text{V} < V_{OUT} \leq 5\text{V}$ ⁽²⁾	--	60	90	
Input Current 2		V_{OUT} in switch off condition	$V_{OUT} \leq 3.5\text{V}$ ⁽¹⁾	--	6	10	μA
			$3.5\text{V} < V_{OUT} \leq 5\text{V}$ ⁽²⁾	--			
EXT "H" Output Current		$V_{EXT} = V_{OUT} - 0.4\text{V}$	$V_{OUT} \leq 3.5\text{V}$ ⁽¹⁾	-1.5	--	--	mA
			$3.5\text{V} < V_{OUT} \leq 5\text{V}$ ⁽²⁾	-2	--	--	
EXT "L" Output Current		$V_{EXT} = 0.4\text{V}$	$V_{OUT} \leq 3.5\text{V}$ ⁽¹⁾	1.5	--	--	mA
			$3.5\text{V} < V_{OUT} \leq 5\text{V}$ ⁽²⁾	2	--	--	
Maximum Oscillator Frequency	F_{MAX}			80	120	160	kHz
Oscillator Duty Cycle	DOSC	V_{EXT} "H" side	$V_{OUT} = 2.5\text{V}$ to 5V	65	75	85	%
			$V_{OUT} = 1.5\text{V}$ to 2.4V	60	70	80	%

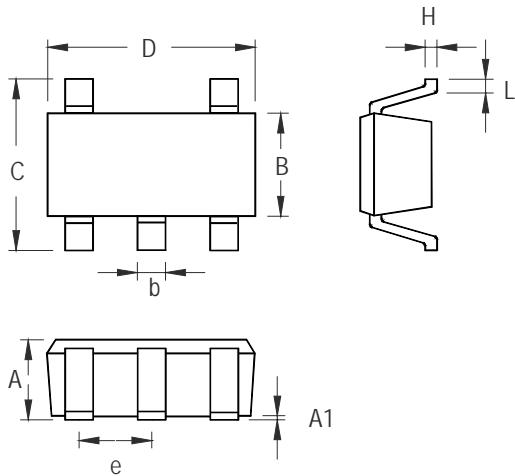
Notes:

(1)Unless otherwise provided, $V_{IN} = 1.8\text{V}$, $V_{SS} = 0\text{V}$, $I_{OUT} = 10\text{mA}$, $T_{OPT} = 25^\circ\text{C}$, and use External Circuit of Typical Application

(2)Unless otherwise provided, $V_{IN} = 3\text{V}$, $V_{SS} = 0\text{V}$, $I_{OUT} = 10\text{mA}$, $T_{OPT} = 25^\circ\text{C}$, and External Circuit of Typical Application

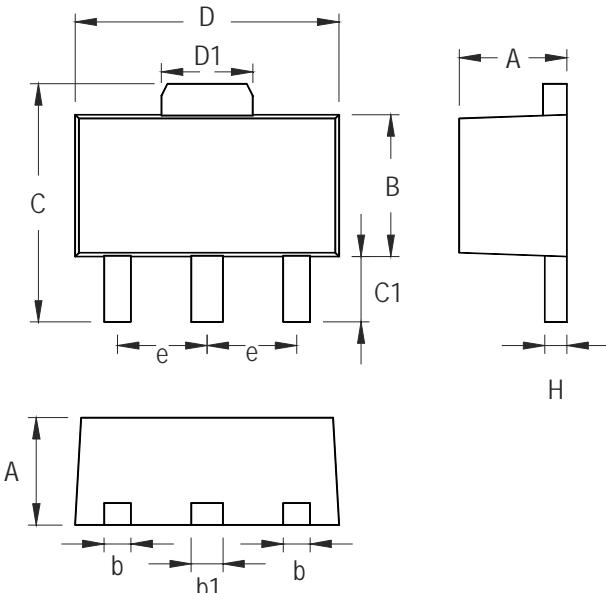
Typical Operating Characteristics



Outline Dimension

Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.889	1.295	0.035	0.051
A1	0.000	0.152	0.000	0.006
B	1.397	1.803	0.055	0.071
b	0.356	0.559	0.014	0.022
C	2.591	2.997	0.102	0.118
D	2.692	3.099	0.106	0.122
e	0.838	1.041	0.033	0.041
H	0.080	0.254	0.003	0.010
L	0.300	0.610	0.012	0.024

SOT-23-5 Surface Mount Package



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.397	1.600	0.055	0.063
b	0.356	0.483	0.014	0.019
B	2.388	2.591	0.094	0.102
b1	0.406	0.533	0.016	0.021
C	3.937	4.242	0.155	0.167
C1	0.787	1.194	0.031	0.047
D	4.394	4.597	0.173	0.181
D1	1.397	1.753	0.055	0.069
e	1.448	1.549	0.057	0.061
H	0.356	0.432	0.014	0.017

3-Lead SOT-89 Surface Mount

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