

100mA Low Power LDO

Features

- ◆ Low power consumption
- ◆ Low voltage drop
- ◆ Low temperature coefficient
- ◆ High input voltage (upto 30V)
- ◆ High output current : 100mA
- ◆ Output voltage accuracy: tolerance $\pm 3\%$

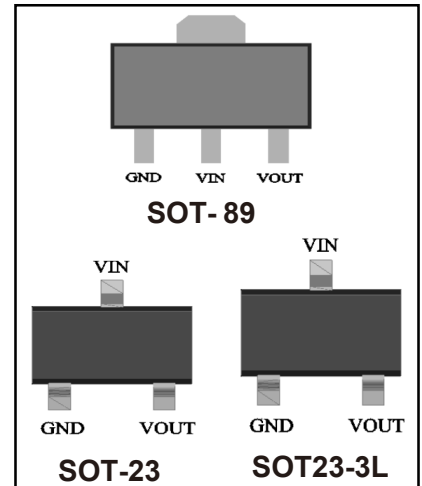
Applications

- ◆ Battery-powered equipment
- ◆ Communication equipment
- ◆ Audio/Video equipment

General Description

◆ The HT75xx-1 series is a set of three-terminal high current low voltage regulator implemented in CMOS technology. They can deliver 100mA output current and allow an input voltage as high as 30V. They are available with several fixed output voltages ranging from 2.1V to 12.0V. CMOS technology ensures low voltage drop and low quiescent current.

Although designed primarily as fixed voltage regulators, these devices can be used with external components to obtain variable voltages and currents.



Selection Table

Part No.	Output Voltage	Package	Marking
HT7521-1	2.1V	SOT-89 SOT-23 SOT23-3L	75xx-1 75xx-1# 75xx-1+
HT7523-1	2.3V		
HT7525-1	2.5V		
HT7527-1	2.7V		
HT7530-1	3.0V		
HT7533-1	3.3V		
HT7536-1	3.6V		
HT7540-1	4.0V		
HT7544-1	4.4V		
HT7550-1	5.0V		
HT7560-1	6.0V		
HT7570-1	7.0V		
HT7580-1	8.0V		
HT7590-1	9.0V		
HT75A0-1	10.0V		
HT75C0-1	12.0V		

Absolute Maximum Ratings (Ta = 25°C)

Parameter	Symbol	Value	Unit
Supply Voltage	V _{IN}	- 3 to + 30	V
Power Dissipation	P _{tot}	500	mW
Operating Temperature	T _A	- 40 to + 85	°C
Storage Temperature Range	T _{stg}	- 50 to + 125	°C

Electrical Characteristics

HT7521-1, +2.1V Output Type

Ta=25°C

Symbol	Parameter	Test Conditions		Min.	Typ.	Max.	Unit
		V _{IN}	Conditions				
V _{OUT}	Output Voltage	4.1V	I _{OUT} =10mA	2.037	2.1	2.163	V
I _{OUT}	Output Current	4.1V	—	60	100	—	mA
ΔV _{OUT}	Load Regulation	4.1V	1mA≤I _{OUT} ≤50mA	—	60	150	mV
V _{DIF}	Voltage Drop (Note)	—	I _{OUT} =1mA, ΔV _{OUT} =2%	—	100	—	mV
I _{SS}	Current Consumption	4.1V	No load	—	2.5	5.0	μA
$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	Line Regulation	—	3.1V≤V _{IN} ≤24V I _{OUT} =1mA	—	0.2	—	%/V
V _{IN}	Input Voltage	—	—	—	—	28	V
$\frac{\Delta V_{DET}}{\Delta T_a}$	Temperature Coefficient	4.1V	I _{OUT} =10mA -40°C<T _a <85°C	—	±0.37	—	mV/°C

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

HT7523-1, +2.3V Output Type

Ta=25°C

Symbol	Parameter	Test Conditions		Min.	Typ.	Max.	Unit
		V _{IN}	Conditions				
V _{OUT}	Output Voltage	4.3V	I _{OUT} =10mA	2.231	2.3	2.369	V
I _{OUT}	Output Current	4.3V	—	60	100	—	mA
ΔV _{OUT}	Load Regulation	4.3V	1mA≤I _{OUT} ≤50mA	—	60	150	mV
V _{DIF}	Voltage Drop (Note)	—	I _{OUT} =1mA, ΔV _{OUT} =2%	—	100	—	mV
I _{SS}	Current Consumption	4.3V	No load	—	2.5	5.0	μA
$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	Line Regulation	—	3.3V≤V _{IN} ≤24V I _{OUT} =1mA	—	0.2	—	%/V
V _{IN}	Input Voltage	—	—	—	—	28	V
$\frac{\Delta V_{DET}}{\Delta T_a}$	Temperature Coefficient	4.3V	I _{OUT} =10mA -40°C<T _a <85°C	—	±0.39	—	mV/°C

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

HT7525-1, +2.5V Output Type

Ta=25°C

Symbol	Parameter	Test Conditions		Min.	Typ.	Max.	Unit
		V _{IN}	Conditions				
V _{OUT}	Output Voltage	4.5V	I _{OUT} =10mA	2.425	2.5	2.575	V
I _{OUT}	Output Current	4.5V	—	60	100	—	mA
ΔV _{OUT}	Load Regulation	4.5V	1mA≤I _{OUT} ≤50mA	—	60	150	mV
V _{DIF}	Voltage Drop (Note)	—	I _{OUT} =1mA, ΔV _{OUT} =2%	—	100	—	mV
I _{SS}	Current Consumption	4.5V	No load	—	2.5	5.0	μA
$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	Line Regulation	—	3.5V≤V _{IN} ≤24V I _{OUT} =1mA	—	0.2	—	%/V
V _{IN}	Input Voltage	—	—	—	—	28	V
$\frac{\Delta V_{DET}}{\Delta T_a}$	Temperature Coefficient	4.5V	I _{OUT} =10mA -40°C<T _a <85°C	—	±0.41	—	mV/°C

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

HT7527-1, +2.7V Output Type

Ta=25°C

Symbol	Parameter	Test Conditions		Min.	Typ.	Max.	Unit
		V _{IN}	Conditions				
V _{OUT}	Output Voltage	4.7V	I _{OUT} =10mA	2.619	2.7	2.781	V
I _{OUT}	Output Current	4.7V	—	60	100	—	mA
ΔV _{OUT}	Load Regulation	4.7V	1mA ≤ I _{OUT} ≤ 50mA	—	60	150	mV
V _{DIF}	Voltage Drop (Note)	—	I _{OUT} =1mA, ΔV _{OUT} =2%	—	100	—	mV
I _{SS}	Current Consumption	4.7V	No load	—	2.5	5.0	μA
$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	Line Regulation	—	3.7V ≤ V _{IN} ≤ 24V I _{OUT} =1mA	—	0.2	—	%/V
V _{IN}	Input Voltage	—	—	—	—	28	V
$\frac{\Delta V_{DET}}{\Delta T_a}$	Temperature Coefficient	4.7V	I _{OUT} =10mA -40°C < T _a < 85°C	—	±0.43	—	mV/°C

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

HT7530-1, +3.0V Output Type

Ta=25°C

Symbol	Parameter	Test Conditions		Min.	Typ.	Max.	Unit
		V _{IN}	Conditions				
V _{OUT}	Output Voltage	5.0V	I _{OUT} =10mA	2.91	3.0	3.09	V
I _{OUT}	Output Current	5.0V	—	60	100	—	mA
ΔV _{OUT}	Load Regulation	5.0V	1mA ≤ I _{OUT} ≤ 50mA	—	60	150	mV
V _{DIF}	Voltage Drop (Note)	—	I _{OUT} =1mA, ΔV _{OUT} =2%	—	100	—	mV
I _{SS}	Current Consumption	5.0V	No load	—	2.5	5.0	μA
$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	Line Regulation	—	4.0V ≤ V _{IN} ≤ 24V I _{OUT} =1mA	—	0.2	—	%/V
V _{IN}	Input Voltage	—	—	—	—	28	V
$\frac{\Delta V_{DET}}{\Delta T_a}$	Temperature Coefficient	5.0V	I _{OUT} =10mA -40°C < T _a < 85°C	—	±0.45	—	mV/°C

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

HT7533-1, +3.3V Output Type

Ta=25°C

Symbol	Parameter	Test Conditions		Min.	Typ.	Max.	Unit
		V _{IN}	Conditions				
V _{OUT}	Output Voltage	5.5V	I _{OUT} =10mA	3.201	3.3	3.399	V
I _{OUT}	Output Current	5.5V	—	60	100	—	mA
ΔV _{OUT}	Load Regulation	5.5V	1mA ≤ I _{OUT} ≤ 50mA	—	60	150	mV
V _{DIF}	Voltage Drop (Note)	—	I _{OUT} =1mA, ΔV _{OUT} =2%	—	100	—	mV
I _{SS}	Current Consumption	5.5V	No load	—	2.5	5.0	μA
$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	Line Regulation	—	4.5V ≤ V _{IN} ≤ 24V I _{OUT} =1mA	—	0.2	—	%/V
V _{IN}	Input Voltage	—	—	—	—	28	V
$\frac{\Delta V_{DET}}{\Delta T_a}$	Temperature Coefficient	5.5V	I _{OUT} =10mA -40°C < T _a < 85°C	—	±0.5	—	mV/°C

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

HT7536-1, +3.6V Output Type

Ta=25°C

Symbol	Parameter	Test Conditions		Min.	Typ.	Max.	Unit
		V _{IN}	Conditions				
V _{OUT}	Output Voltage	5.6V	I _{OUT} =10mA	3.492	3.6	3.708	V
I _{OUT}	Output Current	5.6V	—	60	100	—	mA
ΔV _{OUT}	Load Regulation	5.6V	1mA ≤ I _{OUT} ≤ 50mA	—	60	150	mV
V _{DIF}	Voltage Drop (Note)	—	I _{OUT} =1mA, ΔV _{OUT} =2%	—	100	—	mV
I _{SS}	Current Consumption	5.6V	No load	—	2.5	5.0	μA
$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	Line Regulation	—	4.6V ≤ V _{IN} ≤ 24V I _{OUT} =1mA	—	0.2	—	%/V
V _{IN}	Input Voltage	—	—	—	—	28	V
$\frac{\Delta V_{DET}}{\Delta T_a}$	Temperature Coefficient	5.6V	I _{OUT} =10mA -40°C < T _a < 85°C	—	±0.6	—	mV/°C

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

HT7540-1, +4.0V Output Type

Ta=25°C

Symbol	Parameter	Test Conditions		Min.	Typ.	Max.	Unit
		V _{IN}	Conditions				
V _{OUT}	Output Voltage	6.0V	I _{OUT} =10mA	3.88	4.0	4.12	V
I _{OUT}	Output Current	6.0V	—	60	100	—	mA
ΔV _{OUT}	Load Regulation	6.0V	1mA ≤ I _{OUT} ≤ 50mA	—	60	150	mV
V _{DIF}	Voltage Drop (Note)	—	I _{OUT} =1mA, ΔV _{OUT} =2%	—	100	—	mV
I _{SS}	Current Consumption	6.0V	No load	—	2.5	5.0	μA
$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	Line Regulation	—	5.0V ≤ V _{IN} ≤ 24V I _{OUT} =1mA	—	0.2	—	%/V
V _{IN}	Input Voltage	—	—	—	—	28	V
$\frac{\Delta V_{DET}}{\Delta T_a}$	Temperature Coefficient	6.0V	I _{OUT} =10mA -40°C < T _a < 85°C	—	±0.7	—	mV/°C

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

HT7544-1 +4.4V Output Type

Ta=25°C

Symbol	Parameter	Test Conditions		Min.	Typ.	Max.	Unit
		V _{IN}	Conditions				
V _{OUT}	Output Voltage	6.4V	I _{OUT} =10mA	4.268	4.4	4.532	V
I _{OUT}	Output Current	6.4V	—	60	100	—	mA
ΔV _{OUT}	Load Regulation	6.4V	1mA ≤ I _{OUT} ≤ 50mA	—	60	150	mV
V _{DIF}	Voltage Drop (Note)	—	I _{OUT} =1mA, ΔV _{OUT} =2%	—	100	—	mV
I _{SS}	Current Consumption	6.4V	No load	—	2.5	5.0	μA
$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	Line Regulation	—	5.4V ≤ V _{IN} ≤ 24V I _{OUT} =1mA	—	0.2	—	%/V
V _{IN}	Input Voltage	—	—	—	—	28	V
$\frac{\Delta V_{DET}}{\Delta T_a}$	Temperature Coefficient	6.4V	I _{OUT} =10mA -40°C < T _a < 85°C	—	±0.7	—	mV/°C

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

HT7550-1, +5.0V Output Type

Ta=25°C

Symbol	Parameter	Test Conditions		Min.	Typ.	Max.	Unit
		V _{IN}	Conditions				
V _{OUT}	Output Voltage	7.0V	I _{OUT} =10mA	4.85	5.0	5.15	V
I _{OUT}	Output Current	7.0V	—	100	150	—	mA
ΔV _{OUT}	Load Regulation	7.0V	1mA≤I _{OUT} ≤70mA	—	60	150	mV
V _{DIF}	Voltage Drop (Note)	—	I _{OUT} =1mA, ΔV _{OUT} =2%	—	100	—	mV
I _{SS}	Current Consumption	7.0V	No load	—	2.5	5.0	μA
$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	Line Regulation	—	6.0V≤V _{IN} ≤24V I _{OUT} =1mA	—	0.2	—	%/V
V _{IN}	Input Voltage	—	—	—	—	28	V
$\frac{\Delta V_{DET}}{\Delta T_a}$	Temperature Coefficient	7.0V	I _{OUT} =10mA -40°C<T _a <85°C	—	±0.75	—	mV/°C

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

HT7560-1, +6.0V Output Type

Ta=25°C

Symbol	Parameter	Test Conditions		Min.	Typ.	Max.	Unit
		V _{IN}	Conditions				
V _{OUT}	Output Voltage	8.0V	I _{OUT} =10mA	5.82	6.0	6.18	V
I _{OUT}	Output Current	8.0V	—	150	—	—	mA
ΔV _{OUT}	Load Regulation	8.0V	1mA≤I _{OUT} ≤70mA	—	60	150	mV
V _{DIF}	Voltage Drop (Note)	—	I _{OUT} =1mA, ΔV _{OUT} =2%	—	100	—	mV
I _{SS}	Current Consumption	8.0V	No load	—	2.5	5.0	μA
$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	Line Regulation	—	7.0V≤V _{IN} ≤24V I _{OUT} =1mA	—	0.2	—	%/V
V _{IN}	Input Voltage	—	—	—	—	28	V
$\frac{\Delta V_{DET}}{\Delta T_a}$	Temperature Coefficient	8.0V	I _{OUT} =10mA -40°C<T _a <85°C	—	±0.85	—	mV/°C

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

HT7570-1, +7.0V Output Type

Ta=25°C

Symbol	Parameter	Test Conditions		Min.	Typ.	Max.	Unit
		V _{IN}	Conditions				
V _{OUT}	Output Voltage	9.0V	I _{OUT} =10mA	6.79	7.0	7.21	V
I _{OUT}	Output Current	9.0V	—	150	—	—	mA
ΔV _{OUT}	Load Regulation	9.0V	1mA≤I _{OUT} ≤70mA	—	60	150	mV
V _{DIF}	Voltage Drop (Note)	—	I _{OUT} =1mA, ΔV _{OUT} =2%	—	100	—	mV
I _{SS}	Current Consumption	9.0V	No load	—	2.5	5.0	μA
$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	Line Regulation	—	8.0V≤V _{IN} ≤24V I _{OUT} =1mA	—	0.2	—	%/V
V _{IN}	Input Voltage	—	—	—	—	28	V
$\frac{\Delta V_{DET}}{\Delta T_a}$	Temperature Coefficient	9.0V	I _{OUT} =10mA -40°C<T _a <85°C	—	±0.95	—	mV/°C

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

HT7580-1, +8.0V Output Type

Ta=25°C

Symbol	Parameter	Test Conditions		Min.	Typ.	Max.	Unit
		V _{IN}	Conditions				
V _{OUT}	Output Voltage	10V	I _{OUT} =10mA	7.76	8.0	8.24	V
I _{OUT}	Output Current	10V	—	150	—	—	mA
ΔV _{OUT}	Load Regulation	10V	1mA≤I _{OUT} ≤70mA	—	60	150	mV
V _{DIF}	Voltage Drop (Note)	—	I _{OUT} =1mA, ΔV _{OUT} =2%	—	100	—	mV
I _{SS}	Current Consumption	10V	No load	—	2.5	5.0	μA
$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	Line Regulation	—	9.0V≤V _{IN} ≤24V I _{OUT} =1mA	—	0.2	—	%/V
V _{IN}	Input Voltage	—	—	—	—	28	V
$\frac{\Delta V_{DET}}{\Delta T_a}$	Temperature Coefficient	10V	I _{OUT} =10mA -40°C<T _a <85°C	—	±1.10	—	mV/°C

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

HT7590-1, +9.0V Output Type

Ta=25°C

Symbol	Parameter	Test Conditions		Min.	Typ.	Max.	Unit
		V _{IN}	Conditions				
V _{OUT}	Output Voltage	11V	I _{OUT} =10mA	8.73	9.0	9.27	V
I _{OUT}	Output Current	11V	—	150	—	—	mA
ΔV _{OUT}	Load Regulation	11V	1mA≤I _{OUT} ≤70mA	—	60	150	mV
V _{DIF}	Voltage Drop (Note)	—	I _{OUT} =1mA, ΔV _{OUT} =2%	—	100	—	mV
I _{SS}	Current Consumption	11V	No load	—	2.5	5.0	μA
$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	Line Regulation	—	10V≤V _{IN} ≤24V I _{OUT} =1mA	—	0.2	—	%/V
V _{IN}	Input Voltage	—	—	—	—	28	V
$\frac{\Delta V_{DET}}{\Delta T_a}$	Temperature Coefficient	11V	I _{OUT} =10mA -40°C<T _a <85°C	—	±1.15	—	mV/°C

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

HT75A0-1, +10.0V Output Type

Ta=25°C

Symbol	Parameter	Test Conditions		Min.	Typ.	Max.	Unit
		V _{IN}	Conditions				
V _{OUT}	Output Voltage	12V	I _{OUT} =10mA	9.7	10.0	10.3	V
I _{OUT}	Output Current	12V	—	150	—	—	mA
ΔV _{OUT}	Load Regulation	12V	1mA≤I _{OUT} ≤70mA	—	60	150	mV
V _{DIF}	Voltage Drop (Note)	—	I _{OUT} =1mA, ΔV _{OUT} =2%	—	100	—	mV
I _{SS}	Current Consumption	12V	No load	—	2.5	5.0	μA
$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	Line Regulation	—	11V≤V _{IN} ≤24V I _{OUT} =1mA	—	0.2	—	%/V
V _{IN}	Input Voltage	—	—	—	—	28	V
$\frac{\Delta V_{DET}}{\Delta T_a}$	Temperature Coefficient	12V	I _{OUT} =10mA -40°C<T _a <85°C	—	±1.25	—	mV/°C

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

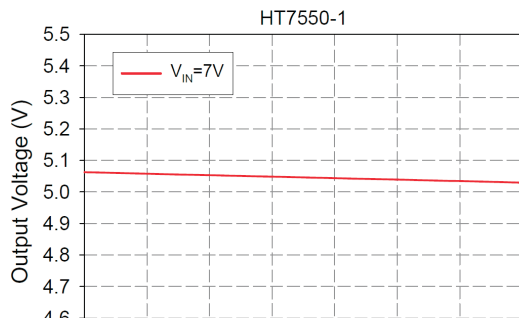
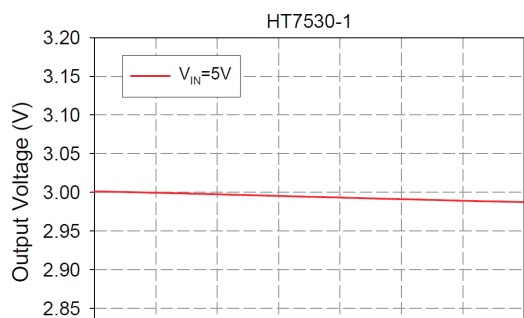
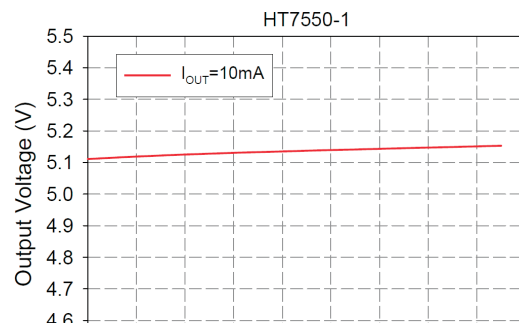
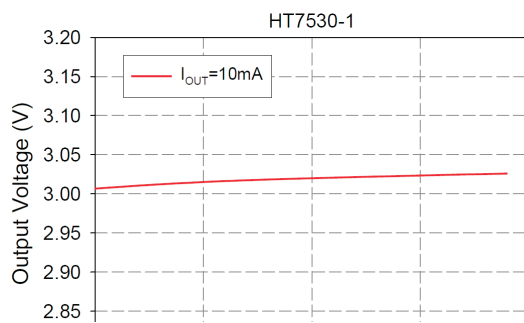
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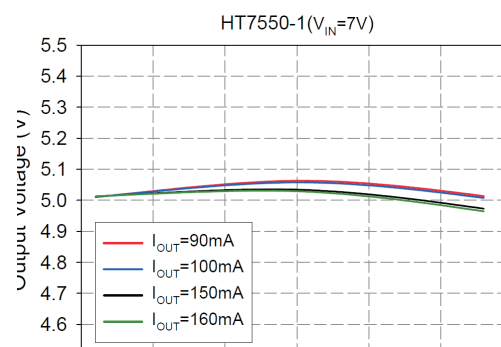
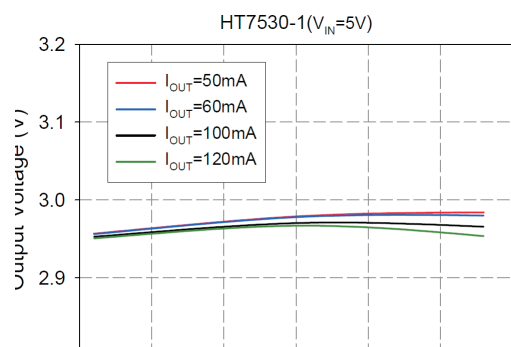
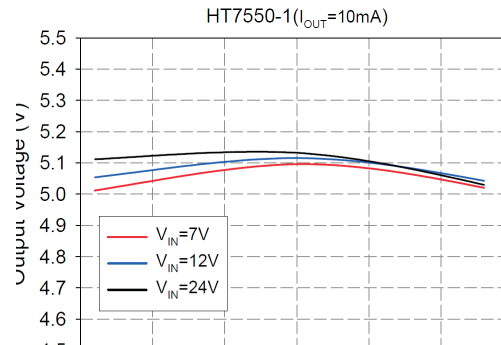
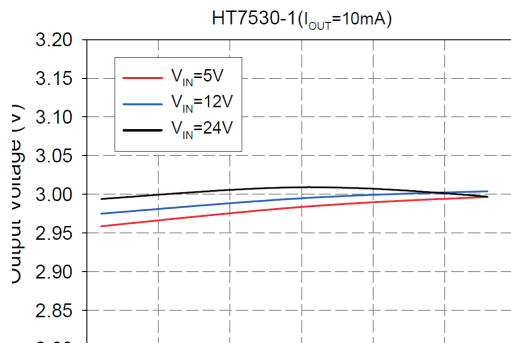
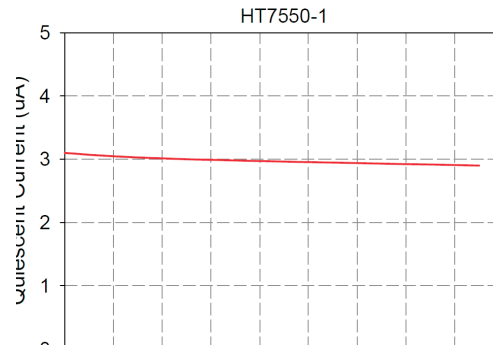
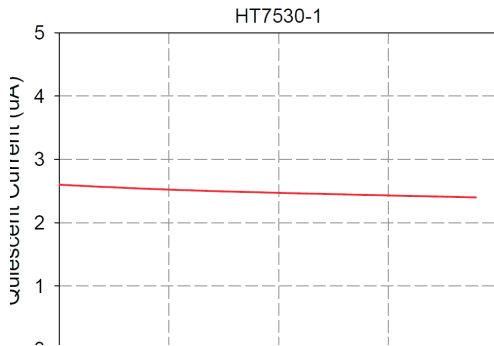
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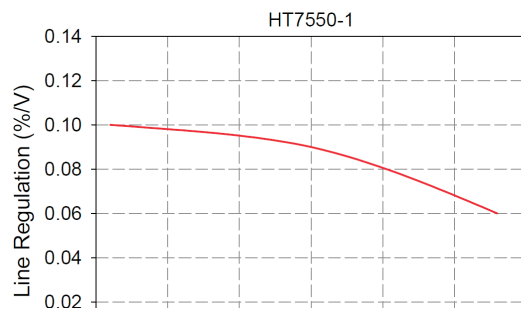
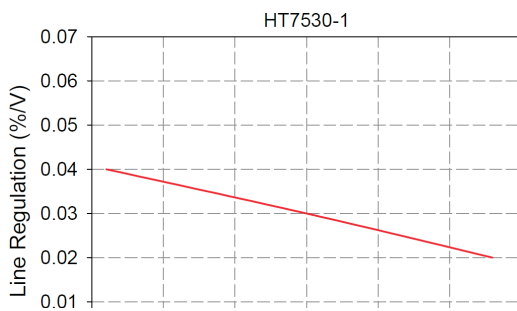
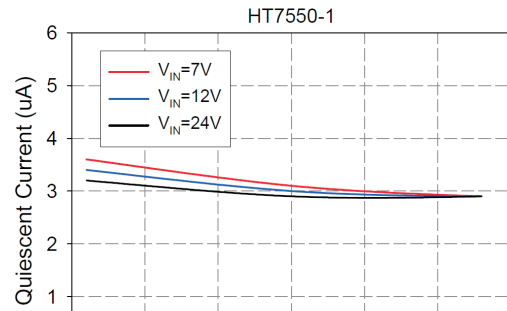
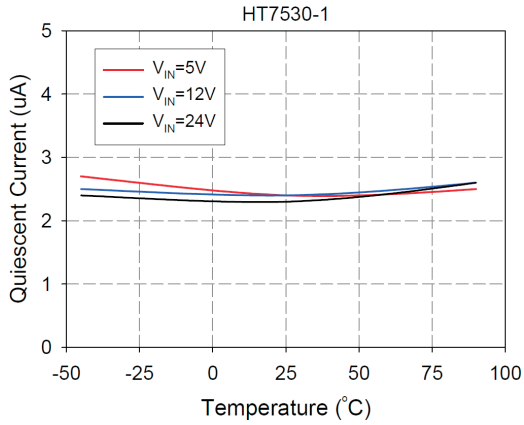
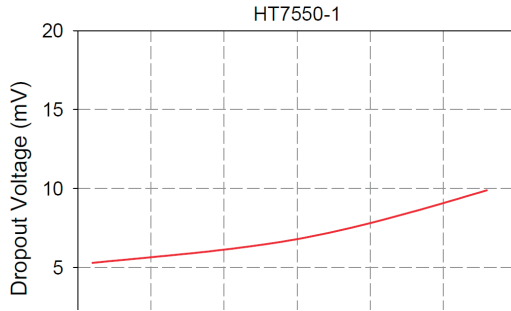
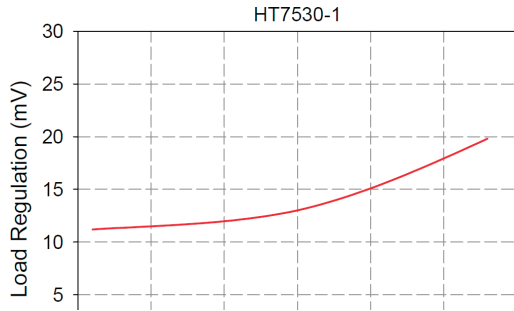
Symbol	Parameter	Test Conditions		Min.	Typ.	Max.	Unit
		V _{IN}	Conditions				
V _{OUT}	Output Voltage	14V	I _{OUT} =10mA	11.64	12.0	12.36	V
I _{OUT}	Output Current	14V	—	150	—	—	mA
ΔV _{OUT}	Load Regulation	14V	1mA ≤ I _{OUT} ≤ 70mA	—	60	150	mV
V _{DIF}	Voltage Drop (Note)	—	I _{OUT} =1mA, ΔV _{OUT} =2%	—	100	—	mV
I _{SS}	Current Consumption	14V	No load	—	2.5	5.0	μA
$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	Line Regulation	—	13V ≤ V _{IN} ≤ 24V I _{OUT} =1mA	—	0.2	—	%/V
V _{IN}	Input Voltage	—	—	—	—	28	V
$\frac{\Delta V_{DET}}{\Delta T_a}$	Temperature Coefficient	14V	I _{OUT} =10mA -40°C < T _a < 85°C	—	±1.45	—	mV/°C

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

Typical Performance Characteristics

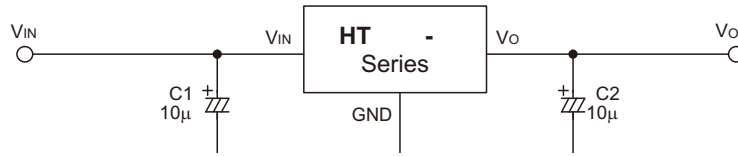




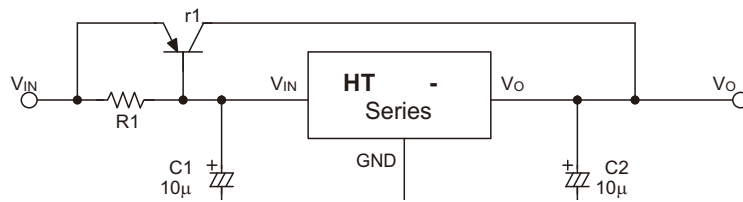


Application Circuits

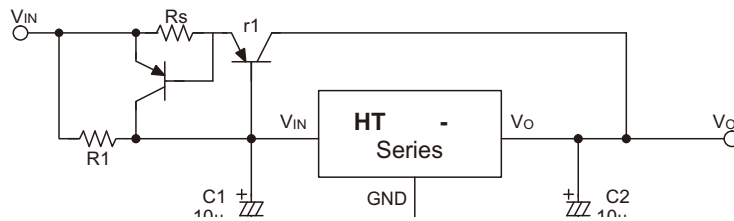
Basic Circuit



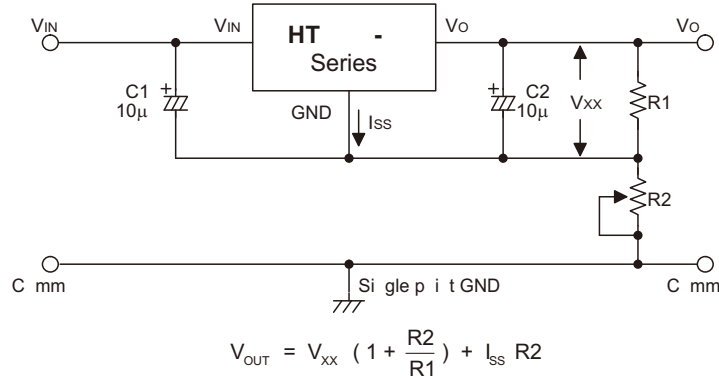
High Output Current Positive Voltage Regulator



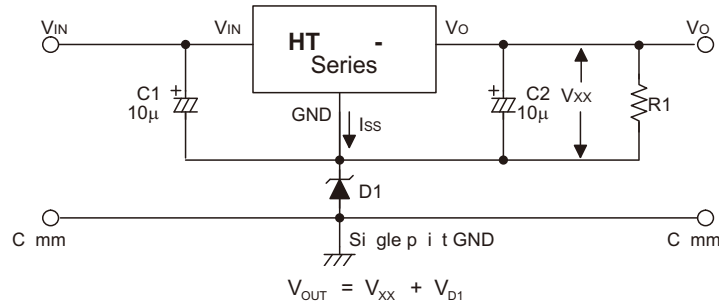
Short-Circuit Protection for Tr1



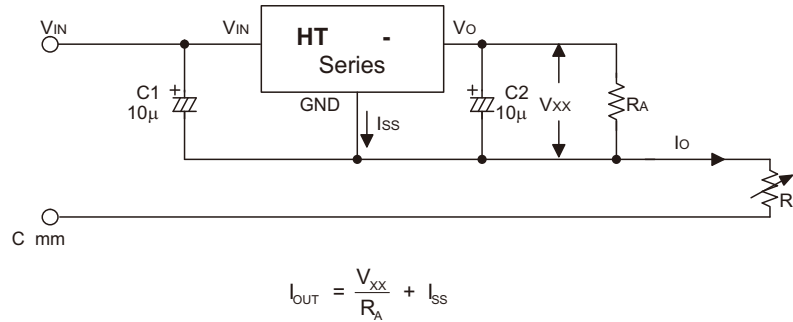
Circuit for Increasing Output Voltage



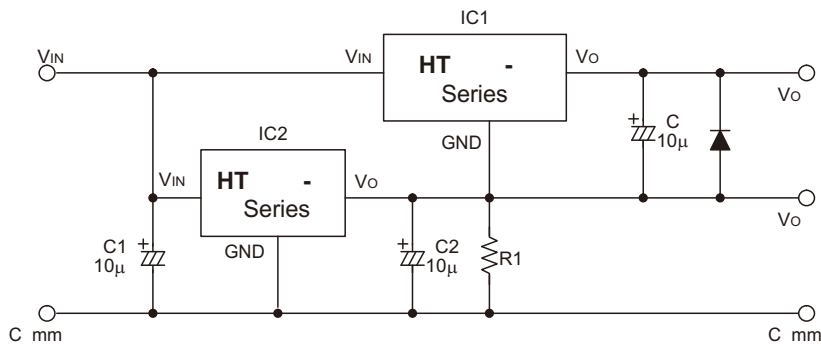
Circuit for Increasing Output Voltage



Constant Current Regulator



Dual Supply



Ordering information

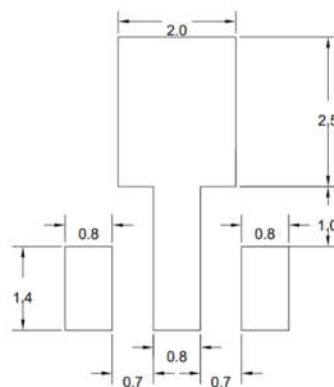
Package	Packing Description	Base Quantity	Packing Quantity
SOT-89	Tape/Reel,7"reel	1000pcs/Reel	6000PCS/Box 30000PCS/Carton

Package Dimensions

SOT-89

Dim	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	1.40	1.60	0.055	0.063
b	0.32	0.52	0.013	0.020
b1	0.38	0.58	0.015	0.023
c	0.35	0.45	0.014	0.018
D	4.40	4.60	0.173	0.181
D1	1.45	1.65	0.057	0.065
D2	1.70	1.80	0.067	0.071
E	2.30	2.60	0.091	0.102
E1	3.95	4.25	0.156	0.167
E2	1.80	2.00	0.071	0.079
e	1.40	1.60	0.055	0.063
e1	2.80	3.20	0.110	0.126
L	0.90	1.20	0.035	0.047

The recommended mounting pad size



UNIT:MM

Ordering information

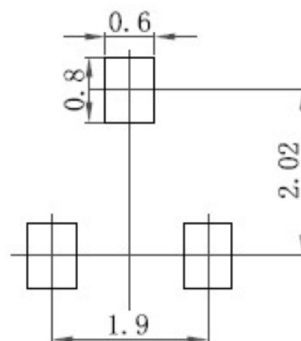
Package	Packing Description	Base Quantity	Packing Quantity
SOT-23	Tape/Reel,7"reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

Package Dimensions

SOT-23

Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.15	35	45
A1	0.1		3.9	
bp	0.38	0.48	15	19
C	0.09	0.15	3.54	5.9
D	2.8	3.0	110	118
E	1.2	1.4	47	55
E	1.9		75	
E1	0.95		37	
HE	2.1	2.55	83	100
Lp	0.15	0.45	5.9	18
Q	0.45	0.55	18	22
v	0.2		7.9	
W	0.1		4	

The recommended mounting pad size



Ordering information

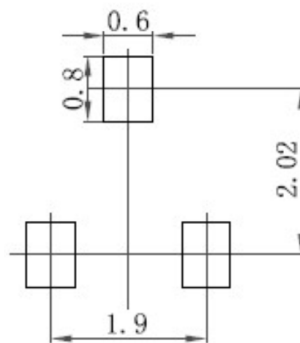
Package	Packing Description	Base Quantity	Packing Quantity
SOT23-3L	Tape/Reel, 7" reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

Package Dimensions

SOT23-3L

Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
A	1.05	1.25	41	49.2
A1	0.10		3.93	
A2	1.05	1.15	41	45
b	0.30	0.50	12	20
c	0.10	0.20	3.93	7.9
D	2.82	3.02	111	119
E	1.50	1.70	59	67
E1	2.65	2.95	104	116
e	0.95		37.4	
e1	1.80	2.00	71	78
L	0.30	0.066	12	26
Θ	8°			

The recommended mounting pad size



Disclaimer

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