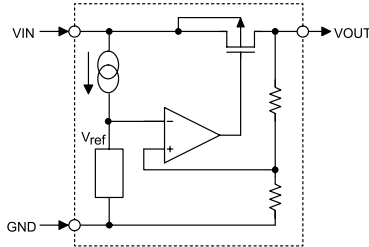
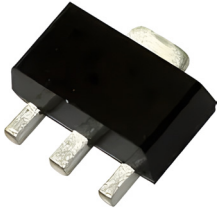


High Driver LDO Regulator

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RoHS
Compliant



Features

- Low power consumption
- Low voltage drop
- Low temperature coefficient
- High input voltage (up to 24V)

Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating
Supply Voltage	V_{SS}	-0.3 to 26V
Power Consumption	P_c	250mW
Junction Temperature	T_J	125°C
Operating Temperature	T_{op}	0°C to 70°C
Storage Temperature range	T_{STG}	-50°C to 125°C

Electrical Characteristic $T_a = 25^\circ\text{C}$

HT7530, +3.0V output type

Parameter	Symbol	Test conditons		Min	Typ	Max	Unit
		V_{IN}	Conditions				
Output Voltage Tolerance	V_{OUT}	5V	$I_{OUT}=10\text{mA}$	2.85	3	3.15	V
Output Current	I_{OUT}			60	100		mA
Load Regulation	ΔV_{OUT}		$1\text{mA} \leq I_{OUT} \leq 50\text{mA}$		60	150	mV
Voltage Drop	V_{DIF}		$I_{OUT}=1\text{mA}$		100		
Current Consumption	I_{SS}	5V	No load		10	20	μA
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$		$4\text{V} \leq V_{IN} \leq 12\text{V}$ $I_{OUT}=1\text{mA}$		0.2		%/V
Input Voltage	V_{IN}					24	V
Temperature Coefficient	$\frac{\Delta V_{OUT}}{\Delta T_a}$	5V	$I_{OUT}=10\text{mA}$ $0^\circ\text{C} < T_a < 70^\circ\text{C}$		± 0.45		$\text{mV}/^\circ\text{C}$

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HT7533, +3.3V output type

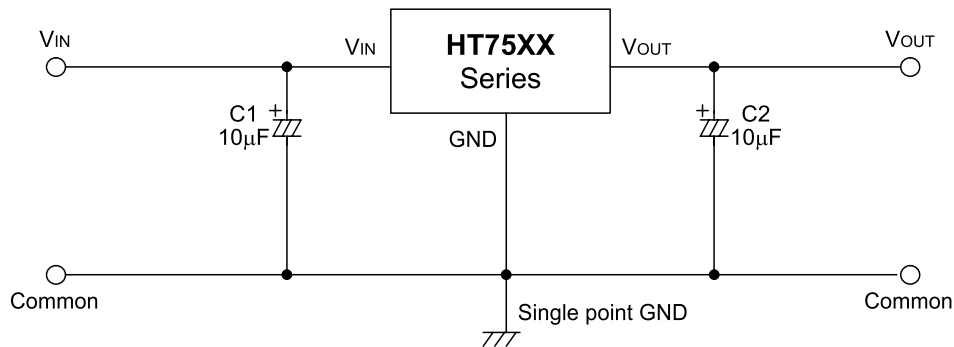
Parameter	Symbol	Test conditons		Min	Typ	Max	Unit
		V _{IN}	Conditions				
Output Voltage Tolerance	V _{OUT}	5.5V	I _{OUT} =10mA	3.14	3.3	3.47	V
Output Current	I _{OUT}			60	100		mA
Load Regulation	ΔV _{OUT}		1mA ≤ I _{OUT} ≤ 50mA		60	150	mV
Voltage Drop	V _{DIF}		I _{OUT} =1mA		100		
Current Consumption	I _{SS}	5.5V	No load		10	20	uA
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$		4.5V ≤ V _{IN} ≤ 12V I _{OUT} =1mA		0.2		%/V
Input Voltage	V _{IN}					24	V
Temperature Coefficient	$\frac{\Delta V_{OUT}}{\Delta T_a}$	5.5V	I _{OUT} =10mA 0°C < T _a < 70°C		±0.5		mV/°C

HT7550, +5.0V output type

Parameter	Symbol	Test conditons		Min	Typ	Max	Unit
		V _{IN}	Conditions				
Output Voltage Tolerance	V _{OUT}	7V	I _{OUT} =10mA	4.75	5	5.25	V
Output Current	I _{OUT}			100	150		mA
Load Regulation	ΔV _{OUT}		1mA ≤ I _{OUT} ≤ 70mA		60	150	mV
Voltage Drop	V _{DIF}		I _{OUT} =1mA		100		
Current Consumption	I _{SS}	7V	No load		10	20	uA
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$		6V ≤ V _{IN} ≤ 15V I _{OUT} =1mA		0.2		%/V
Input Voltage	V _{IN}					24	V
Temperature Coefficient	$\frac{\Delta V_{OUT}}{\Delta T_a}$	7V	I _{OUT} =10mA 0°C < T _a < 70°C		±0.75		mV/°C

Typical Characteristics

Basic circuits



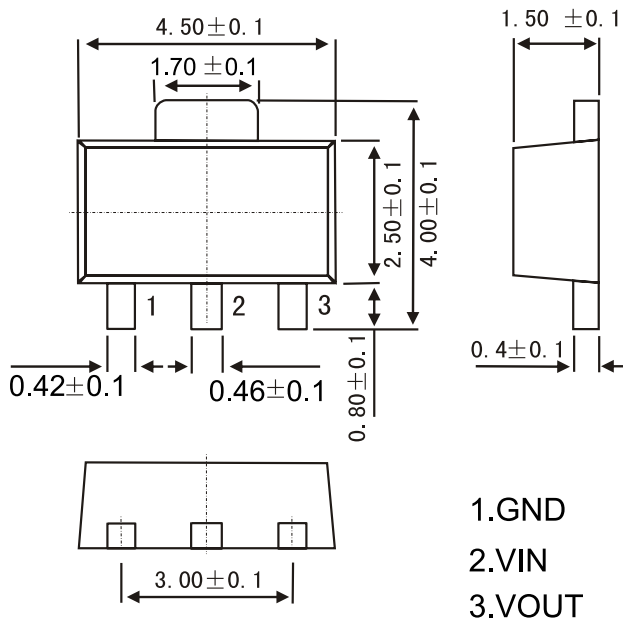
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High Driver LDO Regulator

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Diagram



Part Number Table

Description	Part Number
High Driver LDO Regulator, 3.0V, ±5%, SOT-89	HT7530
High Driver LDO Regulator, 3.3V, ±5%, SOT-89	HT7533
High Driver LDO Regulator, 5.0V, ±5%, SOT-89	HT7550

Dimensions : Millimetres

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