



# HL1117A

## 1A Bipolar Linear Regulator

### Features

- Output current is 1A
- Range of operation input voltage: 15V
- Line regulation: 0.03%/V (typ.)
- Standby current: 2mA (typ.)
- Load regulation: 0.2%/A (typ.)
- Environment Temperature: -20°C~85°C

### Applications

- Power Management for Computer Mother Board, Graphic Card
- LCD Monitor and LCD TV
- DVD Decode Board
- ADSL Modem
- Post Regulators for Switching Supplies



### General Description

HL1117A is a series of low dropout three-terminal regulators with a dropout of 1.3V at 1A load current. HL1117A features a very low standby current 2mA compared to 5mA of competitor.

Other than a fixed version,  $V_{out} = 1.2V, 1.5V, 1.8V, 2.5V, 2.85V, 3.3V,$  and 5V, HL1117A has an adjustable version, which can provide an output voltage from 1.25 to 12V

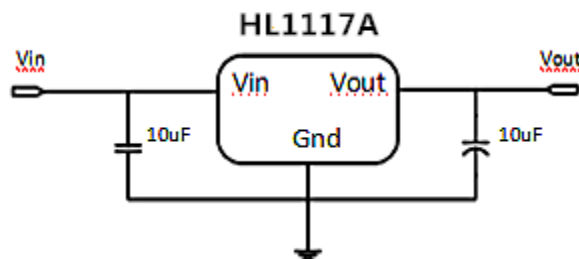
with

only two external resistors.

HL1117A offers thermal shut down function, to assure the stability of chip and power system. And it uses trimming technique to guarantee output voltage accuracy within 2%. Other output voltage accuracy can be customized on demand, such as 1%.

HL1117A is available in SOT-223, TO-252 power package.

### Typical Application



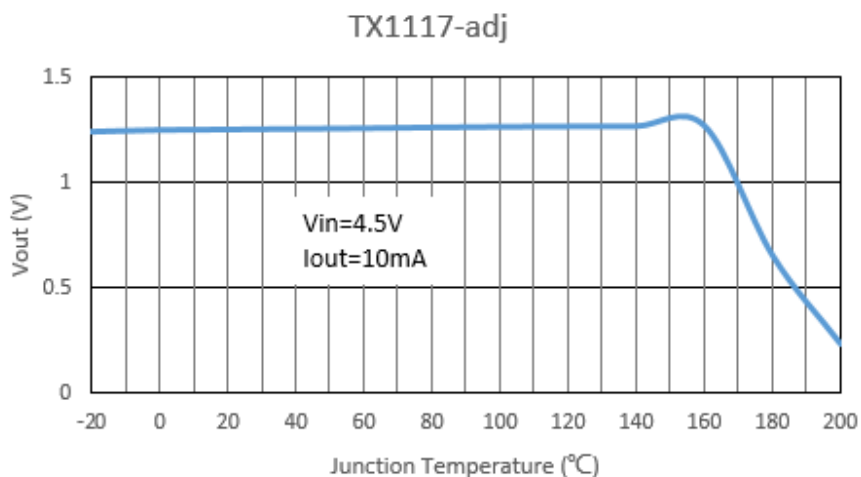
Application circuit of HL1117A fixed version



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### Typical Electrical Characteristic



### Selection Table

Marking	Part No.	Output Voltage	Package
1117A XX YYWW	XX=12	1.2V	SOT-223 TO-252
	XX=15	1.5V	
	XX=18	1.8V	
	XX=28	2.85V	
	XX=25	2.5V	
	XX=33	3.3V	
	XX=50	5.0V	
	XX=AD	Adj	

### Ordering Information

Marking	Designator	Description
1117A XX YYWW	1117A	Product code
	XX	Output Voltage(1.2~12.0V)
	YYWW	DATE CODE

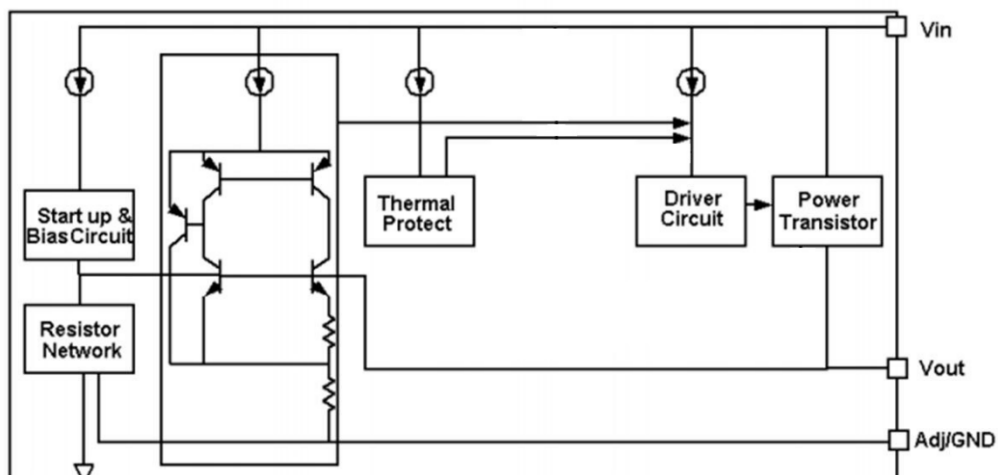
Note: "XX" stands for output voltages. Other voltages can be specially customized



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### Block Diagram



### Pin Configuration

SOT223 (Top View)



Table1: HL1117A series (SOT223 PKG)

PIN NO.	PIN NAME	FUNCTION
1	VSS/ADJ	VSS/ADJ pin
2	VOUT	Output voltage pin
3	VIN	Input voltage pin
4	VOUT	Output voltage pin

TO252 (Top View)

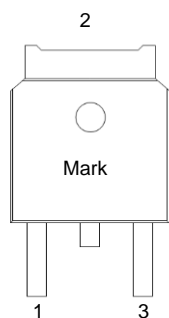


Table2: HL1117A series (TO252 PKG)

PIN NO.	PIN NAME	FUNCTION
1	VSS/ADJ	VSS/ADJ pin
2	VOUT	Output voltage pin
3	VIN	Input voltage pin