

**1A LOW DROPOUT LINEAR REGULATOR****AZ1117****Description**

The AZ1117 is a series of low dropout three-terminal regulators with a dropout of 1.15V at 1A output current.

The AZ1117 series provides current limiting and thermal shutdown. Its circuit includes a trimmed bandgap reference to assure output voltage accuracy to be within 1% for 1.5V, 1.8V, 2.5V, 2.85V, 3.3V, 5.0V and adjustable versions or 2% for 1.2V version. Current limit is trimmed to ensure specified output current and controlled short-circuit current. On-chip thermal shutdown provides protection against any combination of overload and ambient temperature that would create excessive junction temperature.

Features

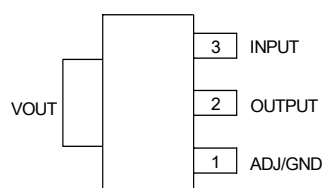
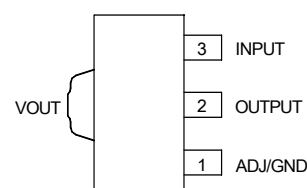
- Trimmed Current Limit
- On-chip Thermal Shutdown
- Three-terminal Adjustable or Fixed 1.2V, 1.5V, 1.8V, 2.5V, 2.85V, 3.3V, 5V
- Line Regulation: 1mV (Typical) at 3.3V Output Voltage
- Load Regulation: 1mV(Typical) at 3.3V Output Voltage

Applications

- PC Motherboard
- LCD Monitor
- Graphic Card
- DVD-video Player

Benefits

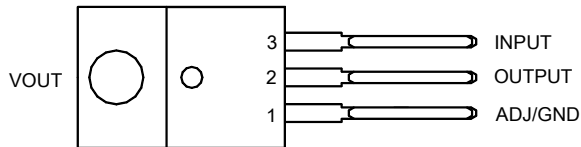
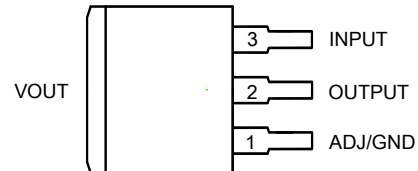
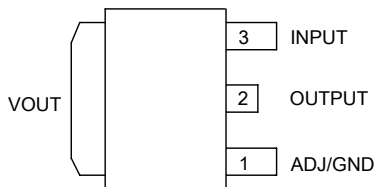
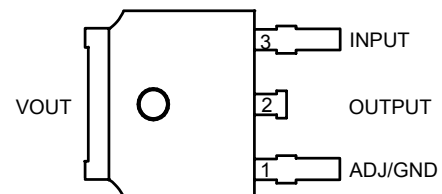
- Equivalent Characteristics to the Products from Worldwide First-class Vendors
- Very Competitive Price

Pin Configuration**SOT-223****SOT-89****Parametric Table**

I_{OUT} (Max) (A)	1
Quiescent Current (Max) (mA)	10
V_{DROP} (Typ) (V)	1.15
V_{IN} (Min) (V)	2.8 (ADJ)
V_{IN} (Max) (V)	15
V_{OUT} (V)	1.2, 1.5, 1.8, 2.5, 2.85, 3.3, 5.0, ADJ
PSRR (dB)	75
Accuracy (%)	± 1 (Except 1.2V)
Load Regulation (Typ) (mV)	1 (3.3V)
Line Regulation (Typ) (mV)	1 (3.3V)
On/Off Pin	No
Error Flag	No
Operating Junction Temperature (Min) ($^{\circ}C$)	-40
Operating Junction Temperature (Max) ($^{\circ}C$)	125

Additional Available Materials

- Samples
- Data Sheet
- Reliability Report
- ESD Report

1A LOW DROPOUT LINEAR REGULATOR
AZ1117
Pin Configuration (Continued)
TO-220-3

TO-263-3

TO-252-2 (1)

TO-252-2 (3)

Ordering Information Example

Package	Temperature Range	Part Number	Marking ID	Packing Type
		Lead Free	Lead Free	
TO-220-3	-40 to 125°C	AZ1117T-ADJE1	AZ1117T-ADJE1	Tube
		AZ1117T-1.2E1	AZ1117T-1.2E1	Tube
		AZ1117T-1.5E1	AZ1117T-1.5E1	Tube
		AZ1117T-1.8E1	AZ1117T-1.8E1	Tube
		AZ1117T-2.5E1	AZ1117T-2.5E1	Tube
		AZ1117T-2.85E1	AZ1117T-2.85E1	Tube
		AZ1117T-3.3E1	AZ1117T-3.3E1	Tube
		AZ1117T-5.0E1	AZ1117T-5.0E1	Tube

Detailed information please refer to the relevant datasheet.

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