

**5A LOW DROPOUT LINEAR REGULATOR****AZ1084****Description**

The AZ1084 is a series of low dropout positive voltage regulators with a maximum dropout of 1.5V at 5A of load current.

The series features on-chip thermal limiting which provides protection against any combination of overload and ambient temperatures that would create excessive junction temperatures. It also includes a trimmed bandgap reference and a current limiting circuit.

Features

- Current Limiting and Thermal Protection
- Output Current: 5A
- Current Limit: 6.5A
- Line Regulation (Adj Version): 0.015% (Typical)
- Load Regulation (Adj Version): 0.1% (Typical)

Applications

- High Efficiency Linear Regulators
- Battery Chargers
- Post Regulation for Switching Supply
- Microprocessor Supply
- Desktop PCs, RISC and Embedded Processors' Supply

Benefits

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

Parametric Table

I_{OUT} (Max) (A)	5
Quiescent Current (Max) (mA)	10
V_{DROP} (Typ) (V)	1.3
V_{IN} (Min) (V)	2.8 (ADJ)
V_{IN} (Max) (V)	12
V_{OUT} (V)	1.5, 1.8, 2.5, 3.3, 5.0, ADJ
PSRR (dB)	72
Accuracy (%)	± 1
Load Regulation (Typ) (%)	0.1 (ADJ)
Line Regulation (Typ) (%)	0.015 (ADJ)
On/Off Pin	No
Error Flag	No
Operating Junction Temperature (Min) (°C)	0
Operating Junction Temperature (Max) (°C)	125

Additional Available Materials

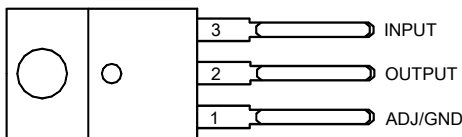
- Samples
- Data Sheet
- Reliability Report
- ESD Report



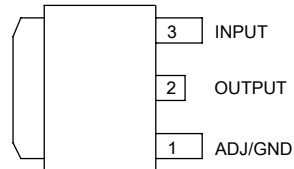
5A LOW DROPOUT LINEAR REGULATOR **AZ1084**

Pin Configuration

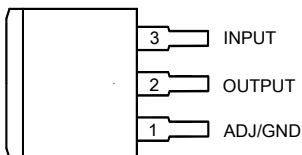
TO-220-3



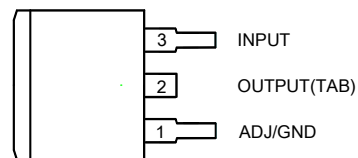
TO-252-2 (1)



TO-263-3/TO-263-3 (u)



TO-263-2



Ordering Information Example

Package	Temperature Range	Part Number		Marking ID		Packing Type
		Lead Free	Green	Lead Free	Green	
TO-220-3	0 to 125°C	AZ1084T-ADJE1	AZ1084T-ADJG1	AZ1084T-ADJE1	AZ1084T-ADJG1	Tube
		AZ1084T-1.5E1	AZ1084T-1.5G1	AZ1084T-1.5E1	AZ1084T-1.5G1	Tube
		AZ1084T-1.8E1	AZ1084T-1.8G1	AZ1084T-1.8E1	AZ1084T-1.8G1	Tube
		AZ1084T-2.5E1	AZ1084T-2.5G1	AZ1084T-2.5E1	AZ1084T-2.5G1	Tube
		AZ1084T-3.3E1	AZ1084T-3.3G1	AZ1084T-3.3E1	AZ1084T-3.3G1	Tube
		AZ1084T-5.0E1	AZ1084T-5.0G1	AZ1084T-5.0E1	AZ1084T-5.0G1	Tube

Detailed information please refer to the relevant datasheet.

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