

**3-TERMINAL 1A ADJUSTABLE VOLTAGE REGULATOR****AZ317****Description**

The AZ317 is an adjustable three-terminal positive voltage regulator with a very low dropout of 1.2V at 1A output current. Using 2 external resistors, the AZ317 can provide an adjustable output voltage down to 1.25V.

The AZ317 includes a circuit of trimmed bandgap reference to assure output voltage accuracy to be within 1%. It also provides current limiting and thermal shutdown. The current limit is trimmed to ensure specified output current and controlled short-circuit current. The On-chip thermal limiting provides protection against any combination of overload and ambient temperature that would create excessive junction temperature.

Features

- Typical 1% Output Voltage Tolerance
- Typical 0.01%/V Line Regulation
- Typical 0.2% Load Regulation
- Very Low Dropout Voltage: 1.2V at 1A Output Current
- Trimmed Current Limit
- On-chip Thermal Protection
- Operation Junction Temperature: 0 to 125°C

Applications

- PC Motherboard
- LCD Monitor
- Graphic Card
- DVD Player
- Network Interface Card/Switch
- Telecom Equipment
- Printer and other Peripheral Equipment

Parametric Table

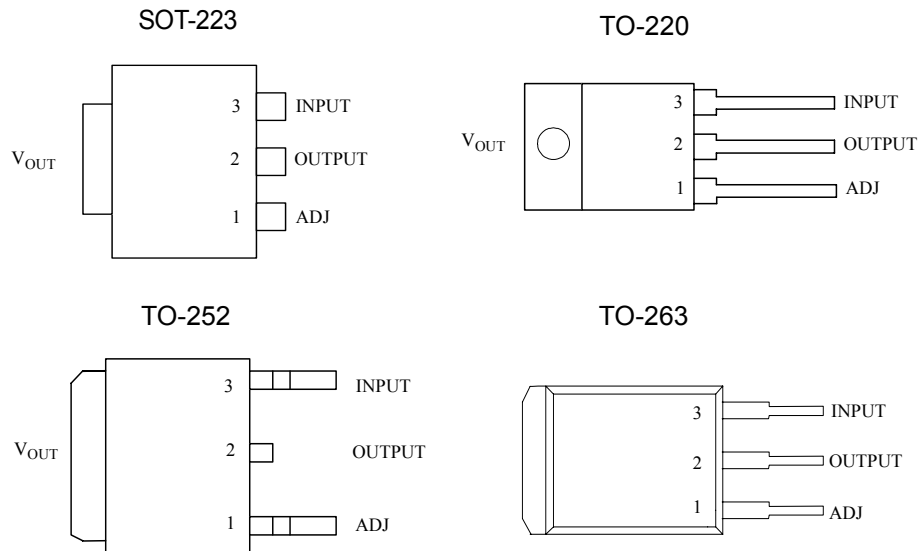
I _{OUT} (Max) (A)	1
Quiescent Current (Max) (mA)	5
V _{DO} (Typ) (V)	1.2
V _{IN} (Min) (V)	2.7
V _{IN} (Max) (V)	18
V _{OUT} (V)	1.25-15.0
PSRR (dB)	75
Accuracy (%)	± 1
Load Regulation (Typ) (%)	0.2
Line Regulation (Typ) (%/V)	0.01
On/Off Pin	No
Error Flag	No
Operating Junction Temperature (Min) (°C)	0
Operating Junction Temperature (Max) (°C)	+125

Benefits

- Low Dropout Voltage
- Very Competitive Price

Additional Available Materials

- Samples
- Datasheet
- Reliability Report
- ESD Report

**3-TERMINAL 1A ADJUSTABLE VOLTAGE REGULATOR****AZ317****Pin Configuration****Ordering Information Example**

Package	Temperature Range	Part Number		Marking ID		Packing Type
		Tin Lead	Lead Free	Tin Lead	Lead Free	
SOT-223	0 to 125°C	AZ317HTR	AZ317HTR-E1	317H	EH31A	Tape & Reel
TO-220	0 to 125°C	AZ317T	AZ317T-E1	AZ317T	AZ317T-E1	Tube
TO-252	0 to 125°C	AZ317D	AZ317D-E1	AZ317D	AZ317D-E1	Tube
		AZ317DTR	AZ317DTR-E1	AZ317D	AZ317D-E1	Tape & Reel
TO-263	0 to 125°C	AZ317S	AZ317S-E1	AZ317S	AZ317S-E1	Tube
		AZ317STR	AZ317STR-E1	AZ317S	AZ317S-E1	Tape & Reel

Detailed information please refer to the relevant datasheet.

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