DATA SHEET

Part No.	AN80T32
Package Code No.	HZIP007-P-0750A

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AN80T32

Multi voltage regulator IC

■ Features

- 3 outputs voltage regulator
- Peak current protection circuit
- ASO protection circuit
- Thermal protection circuit

■ Applications

- For power supply

■ Package

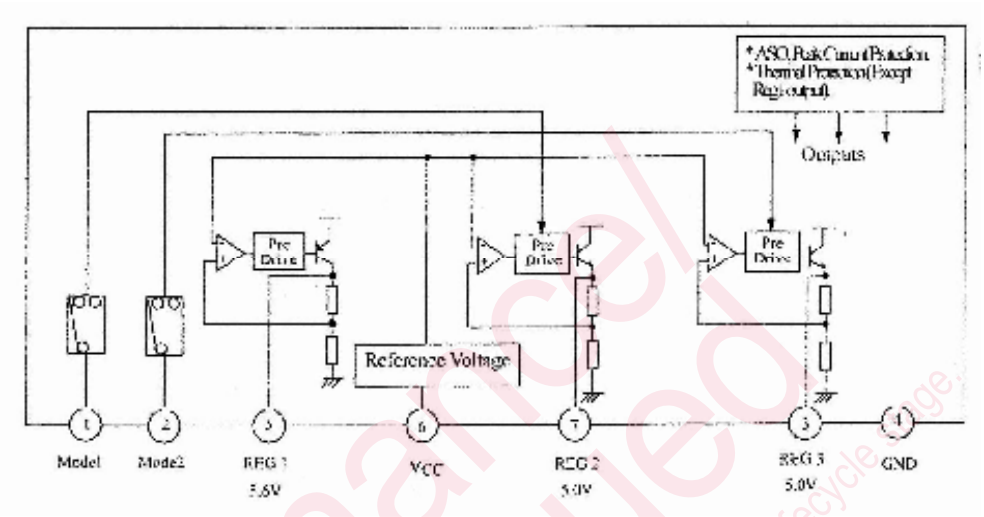
- TO-220 7 pins plastic package (power type with fin)

■ Type

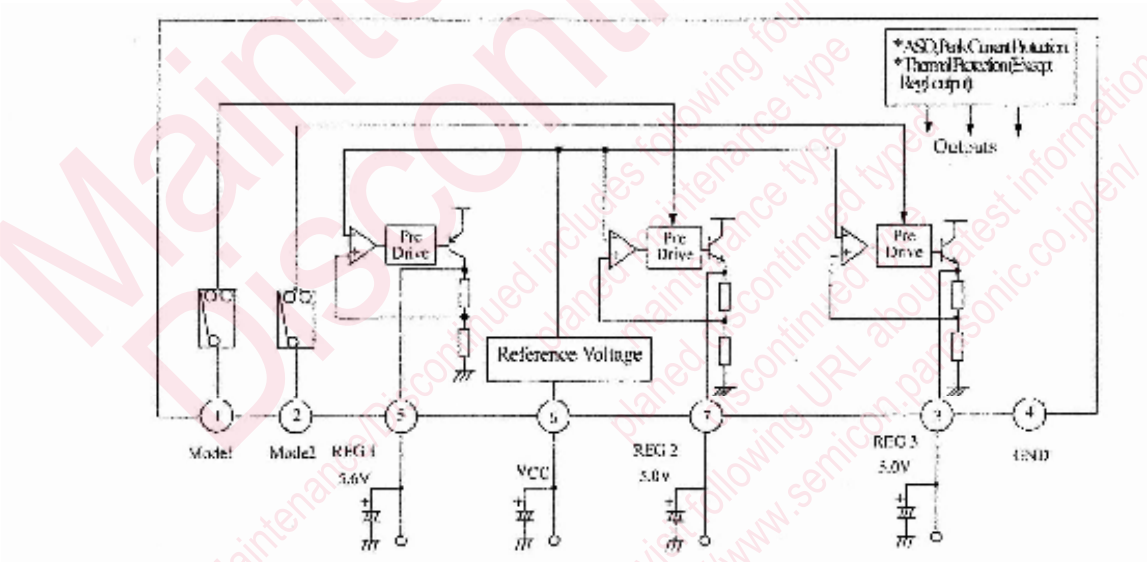
- Silicon monolithic bipolar IC

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■ Block Diagram



■ Application Circuit Example



Mode1 'OFF'	GND
Mode1 'ON'	5V
Mode2 'OFF'	GND
Mode2 'ON'	5V

Note) 1. To prevent oscillation at each output, make sure to connect a capacitor having a capacitance of 22 µF or greater between GND and each of the REG1 (pin 5), REG2 (pin 7), REG3 (pin 3) and V_{CC} (pin 6) pins. We recommend using a tantalum electrolytic capacitor whose capacitance is unsusceptible to temperature.

2. When supplied a V_{CC} of 21 V or greater, IC may be damaged if REG2 or REG3 outputs are shorted to GND.

3. When supplied a V_{CC} of 21 V or greater, IC may be damaged if REG2 or REG3 outputs are load short.

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■ Pin Descriptions

Pin No.	Pin name	Description
1	MODE1	When MODE1 pin is 5 V, REG2 output is “H”.
2	MODE2	When MODE2 pin is 5 V, REG3 output is “H”.
3	REG3	When MODE2 pin is “H”, REG3 output is 5.0 V (I_O = 500 mA min.).
4	GND	Connected to the IC substrate.
5	REG1	When VCC on , REG1 output is 5.6 V (I_O = 170 mA min.).
6	VCC	Connected to power supply.
7	REG2	When MODE1 pin is “H”, REG2 output is 5.0 V (I_O = 250 mA min.).

■ Absolute Maximum Ratings

A No.	Parameter	Symbol	Rating	Unit	Note
1	Storage temperature	T_{stg}	–55 to +150	°C	*1
2	Operating ambient temperature	T_{opr}	–30 to +85	°C	*1
3	Operating ambient pressure	P_{opr}	$1.013 \times 10^5 \pm 0.61 \times 10^5$	Pa	
4	Operating constant acceleration	G_{opr}	9 810	m/S^2	
5	Operating shock	S_{opr}	4 900	m/S^2	
6	Power supply voltage	V_{CC}	20.0	V	
7	Power supply current	I_{CC}	2.5	A	*2
8	Power dissipation	P_D	15	W	*3

Note) *1: Except these items, all other measurements are taken at T_a = 25°C.
*2: Over current limiting circuit built-in.
*3: T_a = 85°C infinite heat sink.

■ Operating Supply Voltage Range

Parameter	Symbol	Range	Unit	Note
Operating supply voltage range	V_{CC}	8.50 to 15.0	V	

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