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DATA SHEET

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

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AN80T32

AN80T32 Multi voltage regulator IC

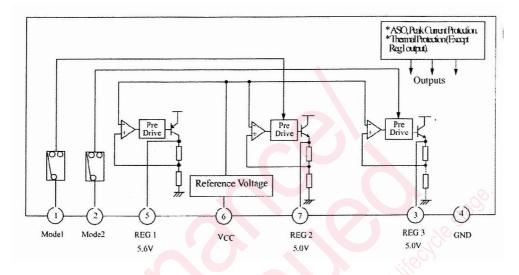
Features

- 3 outputs voltage regulator
- Peak current protection circuit
- ASO protection circuit
- Thermal protection circuit
- Applications
 - For power supply
- Package
 - TO-2207 pins plastic package (power type with fin)

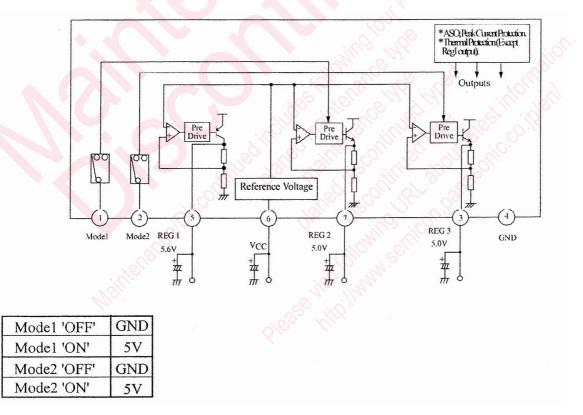
■ Туре

• Silicon monolithic bipolar IC

Block Diagram



Application Circuit Example



- 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.

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 ($I_0 = 500 \text{ mA min.}$).				
4	GND	Connected to the IC substrate.				
5	REG1	When VCC on , REG1 output is 5.6 V ($I_0 = 170$ mA min.).				
6	VCC	Connected to power supply.				
7	REG2	When MODE1 pin is "H", REG2 output is 5.0 V ($I_0 = 250$ mA min.).				
■ Absolute Maximum Ratings						

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 C	
7	Power supply current	Icc	2.5	А	*2
8	Power dissipation	P _D	15	W	*3

Operating Supply Voltage Range

Note)	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	
Oper	ating supply voltage range	V _{CC}	8.50 to 15.0	V		

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