

DATA SHEET

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AN34041A

Multi voltage regulator IC

■ Features

- 3 outputs voltage regulator
- Peak current protection circuit
- ASO protection circuit
- Thermal protection circuit
- 2 power supply inputs

■ Applications

- For power supply

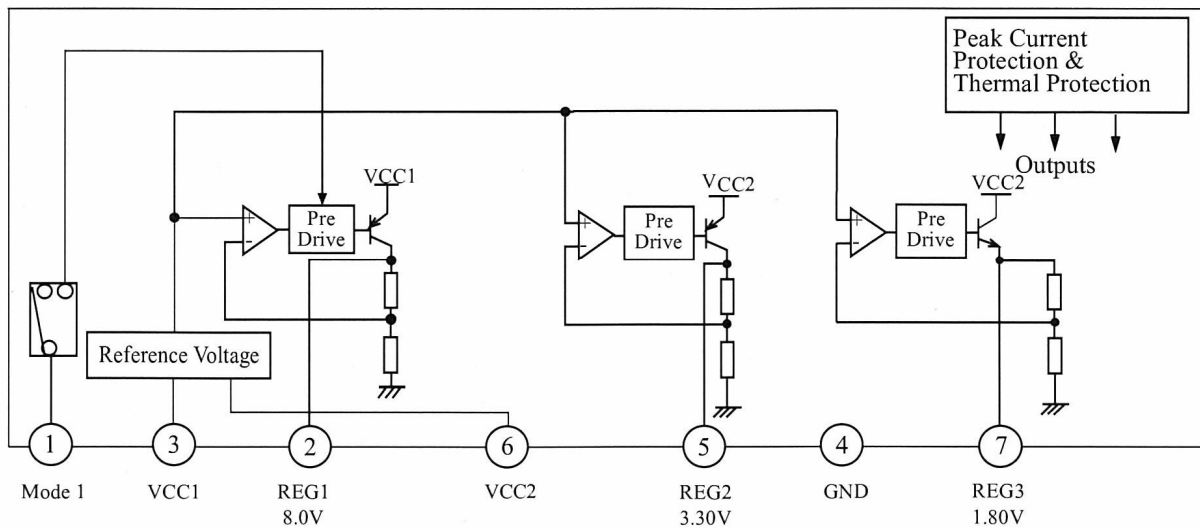
■ Package

- TO-2207 pins plastic package (power type with fin)

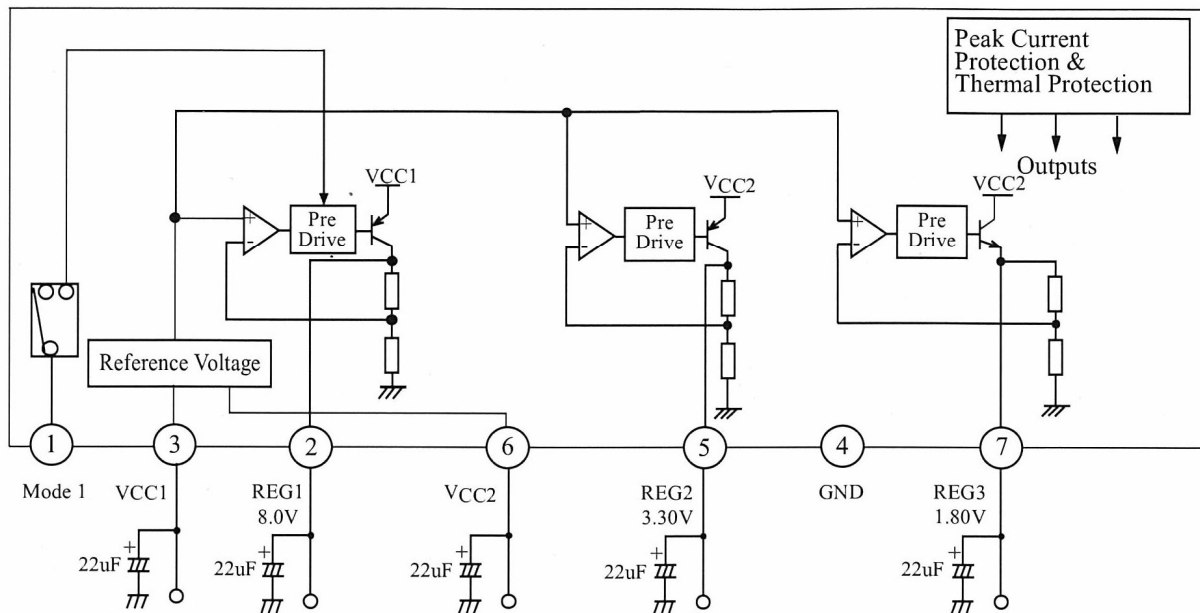
■ Type

- Silicon monolithic bipolar IC

■ Block Diagram



■ Application Circuit Example



Mode1 'OFF'	GND
Mode1 'ON'	5V

■ Pin Descriptions

Pin No.	Pin name	Description
1	MODE1	When MODE1 pin is 5 V. REG1 output is "H".
2	REG1	When MODE1 pin is "H". REG1 output is 8.0 V ($I_O = 600$ mA min.).
3	VCC1	Connected to power supply.
4	GND	Connected to the IC substrate.
5	REG2	When VCC2 is ON. Output is 3.3 V ($I_O = 500$ mA min.).
6	VCC2	Connected to power supply.
7	REG3	When VCC2 is ON. Output is 1.8 V ($I_O = 1\ 000$ 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_{CC1}, V_{CC2}	15.0	V	
7	Power supply current	I_{CC}	3.4	A	*2
8	Power dissipation	P_D	13	W	*3

Note) *1: Except these items, all other measurements are taken at $T_a = 25^\circ\text{C}$.

*2: Over current limiting circuit built-in.

*3: $T_a = 85^\circ\text{C}$ infinite heat sink.

■ Operating Supply Voltage Range

Parameter	Symbol	Range	Unit	Note
Operating supply voltage range	V_{CC1}	10.0 to 14.0	V	
	V_{CC2}	4.0 to 7.0		

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