

# Step-Up DC/DC Converter (VFF) Monolithic IC MM1331

## Outline

This is a converter IC which steps up the DC input voltage to output a fixed voltage level. Utilizing technology for low-voltage operation, which is a feature of Mitsumi semiconductor processes, operation is possible beginning at 0.85V, making this device ideal for the power supply circuits of portable equipment driven by a single battery.

Under small load currents oscillation is stopped and the charge stored in an externally mounted capacitor is output in an intermittent oscillation design, to improve the efficiency of operation under light loads.

## Features

1. Low-voltage operation possible, 0.85V (no-load)
2. Internal oscillation circuit
3. Intermittent oscillation design for improved light-load efficiency
4. Numerous output voltages available (seven ranks)

## Package

SOT-25

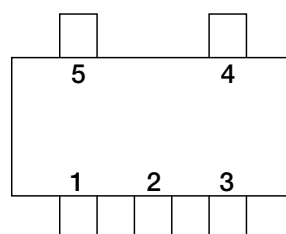
## Output Voltage Rank

| Rank        | A   | B   | C   | D   | E   | G   | H   |
|-------------|-----|-----|-----|-----|-----|-----|-----|
| Voltage (V) | 5.0 | 3.2 | 3.5 | 3.0 | 2.5 | 2.2 | 2.7 |

## Applications

1. Pagers
2. Separate vibrators
3. Other portable equipment

## Pin Assignment



SOT-25

|   |                  |
|---|------------------|
| 1 | GND              |
| 2 | SUB              |
| 3 | V <sub>L</sub>   |
| 4 | V <sub>OUT</sub> |
| 5 | V <sub>IN</sub>  |

\*Pin 2 is the SUB pin, and should be connected to GND.