

## NEW! AN3301X Series Step-Down Regulators

### Highly Reliable DC/DC Series Step-Down Regulators with Controllable Switching Frequency

#### Suitable for External USB Power Supplies

Panasonic, a worldwide leader in Semiconductor Products, is pleased to announce four **NEW AN3301X Series Step-Down Regulators** to their already existing product line. These **NEW AN3301X Series** parts feature a highly reliable DC/DC Step-Down Regulator that employs a voltage control system. They can be operated at a high voltage range (from 5V to 39V) and can also be used for power supply LSI of car-AV systems. These **NEW AN3301X Series** parts have an external clock synchronous function up to 2MHz as well as PLL technology allowing control switching frequency without output voltage malfunction. By integrating a high side SW solution and flag function the **AN3301X Series** can provide a suitable power supply system for an external USB. **AN3301X Series Step-Down Regulators** also include 2ch-external FET type, 1ch- internal FET type and 1ch-internal FET type with load current feedback function that compensates the output voltage drop.

#### Features:

- Operating Voltage Range: 5V to 39V
- Output Voltage : 1.2V to 9.0V
- Adjustable OSC: 200kHz to 2.0MHz (Synchronous to External Clock & PLL Technology)
- Overload Protection with Adjustable Limit
- Overload Flag Function
- Built in UVLO,OVP,SCP,TSD function
- Selectable Latch-OFF Mode
- Adjustable Soft Start Timing
- Current Feedback Function Compensates The Output Voltage Drop Due to Cable Loss

#### Benefits:

- High Absolute Maximum Ratings and Several Protection Functions
- Controllable Switching Frequency – External Clock Synchronous Function Up to 2MHz and PLL Technology
- Suitable for External USB Power Supplies
- Adjustable Over Current Protection with Flag Function
- Built in Current Feedback Function to Monitor and Ensure USB Output Voltage Within USB Standard

#### Applications:

- All Applications Requiring Stepper Motor Driver Programming

#### Industries:

- Automotive
- Office Automation
- Home Appliances

#### Additional Information:

For detailed specification information on these NEW AN3301X Series Step-Down Regulators, please visit: [panasonic.com/industrial/includes/zip/AN3301X\\_Datasheet.zip](http://panasonic.com/industrial/includes/zip/AN3301X_Datasheet.zip) today!

**Website:** [panasonic.com/industrial/semiconductors](http://panasonic.com/industrial/semiconductors)



