

2A/1A Fixed Output LDO Regulators

BAxxDD0T Series BAxxCC0T Series BAxxCC0FP Series

2A/1A Fixed Output LDO Regulators With Shutdown Swicth

BAxxDD0WT Series BAxxDD0HFP Series BAxxCC0WT Series BAxxCC0WFP Series

General Description

Standard Fixed Output LDO Regulators are low-saturation regulators, available for output s up to 2A / 1A. ROHM has a wide output voltage range and package lineup with and without shutdown switches. This IC has a built-in over-current protection circuit that prevents the destruction of the IC due to output short circuits, a thermal shut-down circuit that protects the IC from damage due to overloading and an over-voltage protection circuit that protects the IC from surges generated in the power supply line of the IC.

Features

- $\pm 1\%$ highly accurate output voltage (BAxxDD0xx)
- Low saturation with PNP output
- Built-in over-current protection circuit that prevents the destruction of the IC due to output short circuits
- Built-in thermal shutdown circuit for protecting the IC from damage due to overloading
- Built-in over- voltage protection circuit that prevents the destruction of the IC due to power supply surges

Key Specification

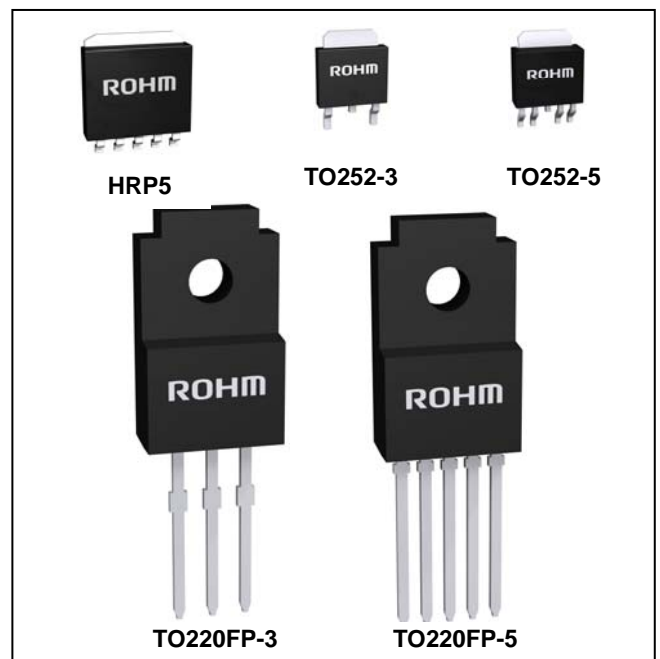
- Input Power Supply Voltage: 25V (Max.)
- Output voltage type: Fixed
- Output current: BAxxDD0xx series 2A (Max.)
BAxxCC0xx series 1A (Max.)
- Shutdown current: 0 μ A(Typ.)
- Operating temperature range: -40°C to +125°C

Applications

Used in DSP power supplies for DVD and CD players, FPDs, televisions, personal computers or any other consumer device

Packages

	W (Typ.) x D (Typ.) x H (Max.)
HRP5	9.395mm x 10.54mm x 2.005mm
TO252-3	6.50 mm x 9.50mm x 2.50 mm
TO252-5	6.50 mm x 9.50mm x 2.50 mm
TO220FP-3	10.00 mm x 30.50mm x 4.60 mm
TO220FP-5	10.00 mm x 30.50mm x 4.60 mm



Lineup matrix

1A output BAxxCC0xx Series

Part Number	Output voltage (V)										Package
	3.0	3.3	5.0	6.0	7.0	8.0	9.0	10.0	12.0	15.0	
BAxxCC0WT	○	○	○	—	○	○	○	○	○	—	TO220FP-5
BAxxCC0WFP	—	○	○	○	○	○	○	—	○	—	TO252-5
BAxxCC0T	○	○	○	○	○	○	○	○	○	○	TO220FP-3
BAxxCC0FP	○	○	○	○	○	○	○	○	○	○	TO252-3

2A output BAxxDD0xx Series

Part Number	Output voltage (V)									Package
	1.5	1.8	2.5	3.0	3.3	5.0	9.0	12.0	16.0	
BAxxDD0WT	○	○	○	○	○	○	○	○	○	TO220FP-5
BAxxDD0WHFP	○	○	○	○	○	○	○	○	○	HRP5
BAxxDD0T	○	○	○	○	○	○	○	○	○	TO220FP-3

○Product structure : Silicon monolithic integrated circuit ○This product is not designed protection against radioactive rays.