



Multiple voltage regulator with switch and ignition buffer

TDA3681

Not Recommended for New Designs

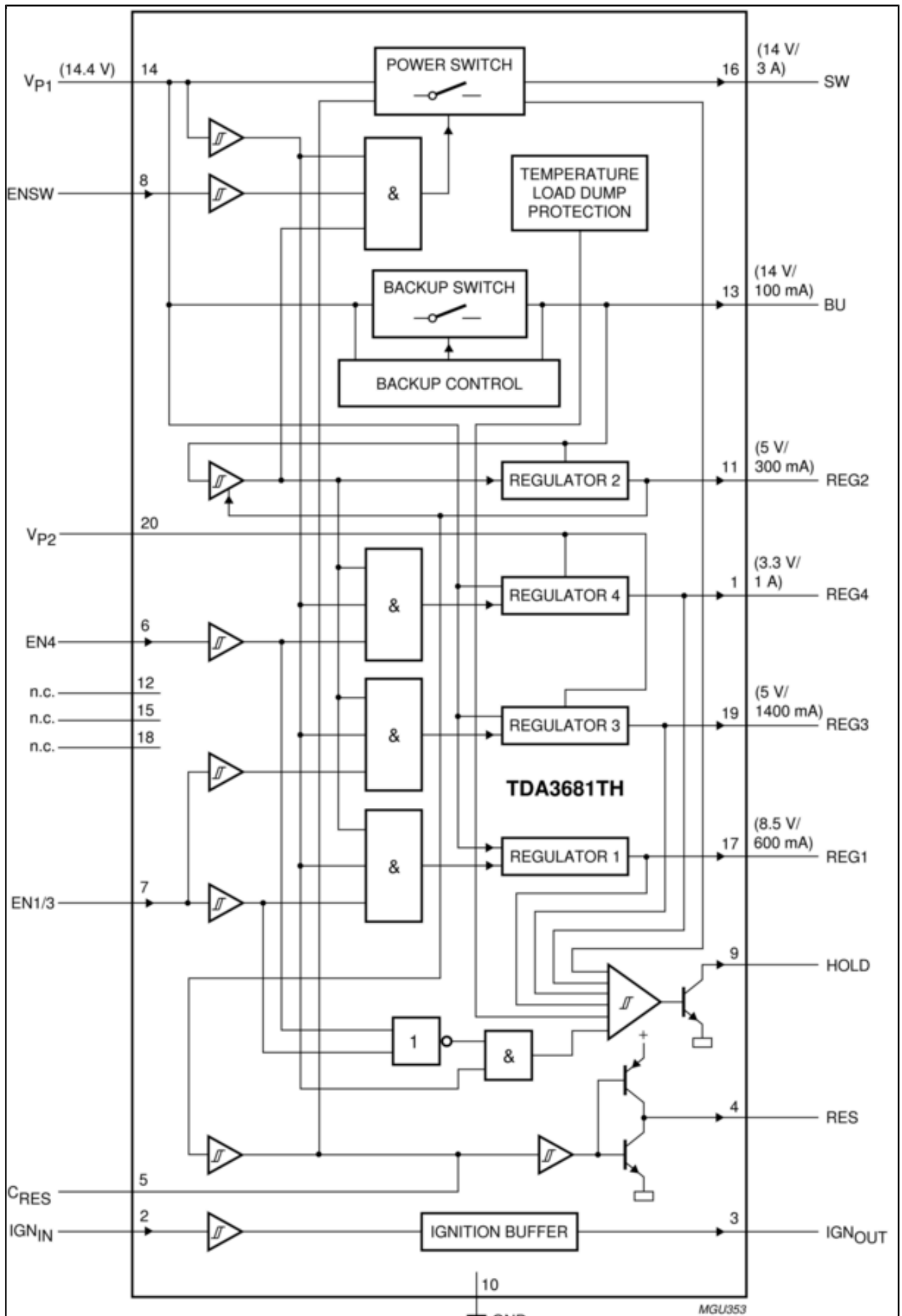
This page contains information on a product that is not recommended for new designs.

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The TDA3681 is a multiple output voltage regulator with a power switch and an ignition buffer. It is intended for use in car radios with or without a microcontroller. The TDA3681 contains the following:

- Four fixed voltage regulators with a foldback current protection (regulators 1, 2, 3 and 4). Regulator 2, which is intended to supply a microcontroller, also operates during load dump and thermal shutdown
- Regulators 3 and 4 have a second supply pin that can be connected to a lower supply voltage (>6.5 V) to reduce the power dissipation
- A power switch with protection, operated by a control input
- Reset and hold outputs that can be used to interface with the microcontroller; the reset signal can be used to call up the microcontroller
- Both supply pins can withstand load dump pulses and negative supply voltages
- Regulator 2, which is in regulation at a backup voltage above 6.5 V
- A provision for the use of a reserve supply capacitor that will hold enough energy for regulator 2 (5 V continuous) to allow a microcontroller to prepare for loss of voltage
- An ignition input Schmitt trigger with push-pull output stage.

Block diagram: TDA3681J, TDA3681JR, TDA3681TH Block Diagram



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