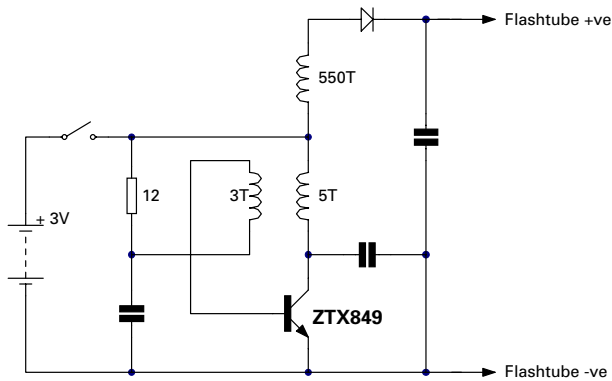


Flashgun Converter



Component size and capacitor re-charge times are a major consideration for camera flashguns. Regular TO220, TO126 or SM D-PAK packaged chips, although bigger, cannot match the performance of the E-Line (TO92 style) Matrix Bipolar chip family. Zetex transistors exhibit lower saturation voltages, higher h_{FE} , a higher current gain hold-up/silicon area, and a more efficient switching performance than any of the devices available from the aforementioned packages.

The ZTX849 features a saturation voltage of only 180mV at 5A (thus

enabling a 5A continuous current capability in a TO-92 sized package), h_{FE} specified from 10mA and up to 20A, and an f_T of 100MHz thus allowing very efficient converter designs.

The simple circuit topology shown can provide a rapid capacitor recharge time of less than 5 seconds. Efficiency is also improved over competitive types, giving typically 24-36 more flash/recharge cycles per battery (Lithium).

A higher gain alternative, the ZTX869, is also available.