Features

- Cell Balance Controller for Multi-Cell Li-ion Battery
- 1% Voltage Difference
- On/Off Control
- Programmable Working Voltage
- Over Temperature Protection
- 5.5~10.0V Input Voltage
- 210uA Max. Quiescent Current
- ~0 uA Shut Down Current
- 200mA Max. Programmable Balancing Current
- TSOT-23-6,SOT-23-6 Package
- Green Product (RoHS, Lead-Free, Halogen-Free Compliant)

General Description

The GS77A3 is a cell balance controlled IC that can manage 1 % voltage difference in two Li-ion cells when Li-ion battery during operation.

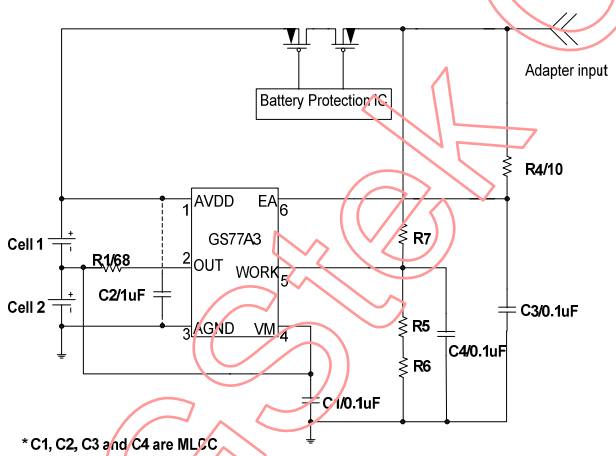
Internal switches and an external resistor is across the two Li-ion cells, when one of internal switches is turn on, the maximum current (balancing current) that can be drawn from or bypassed from the cell is 200mA.

Programmable working voltage help user to define the proper voltage range for cell balance function to optimize the efficiency of whole battery system. The EA pin may be used to shut down the IC when necessary.

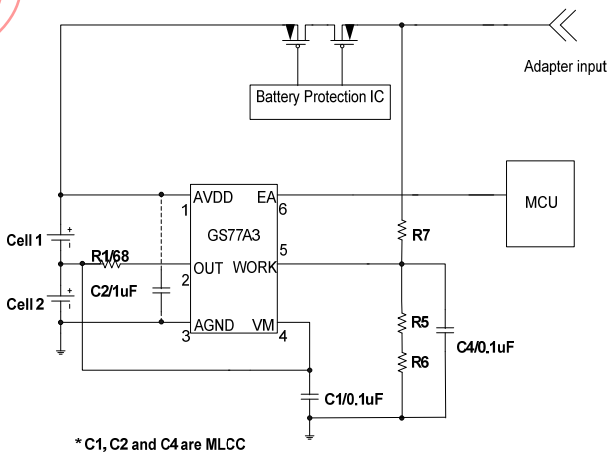
Applications

- Multi-cell Li-ion battery

Typical Application



Application 1. Typical application of GS77A3



Application 2. Typical application of GS77A3 with EA control

Figure 1 Typical Application Circuit of GS77A3

** Patent pending*