

bq20z90 Errata for EVM HPA155 Revision A ([SLUU234](#))

1 Description

The bq29330 AFE may not respond correctly to a short circuit event when using 2-series or 3-series cell configurations, which have low cell impedance. Unwanted reset of the gas gauge, and DSG FET damage may result. 4-cell applications respond correctly.

2 Corrective Actions

Immediate:

For evaluation of short circuit protection with a 2-cell or 3-cell packs, it is recommended that the board be modified to include a 1- μ F / 25-V capacitor from the BAT pin (13) to ground, and a series diode isolating the BAT input from the battery. This is accomplished by cutting the trace to pin 13, and mounting the additional components nearby.

Future:

Texas Instruments is committed to modifying the EVM to revision B, which adds the diode / capacitor network. Also, the value of capacitor C15 will change from 4.7- μ F / 16-V to 1- μ F / 25-V.

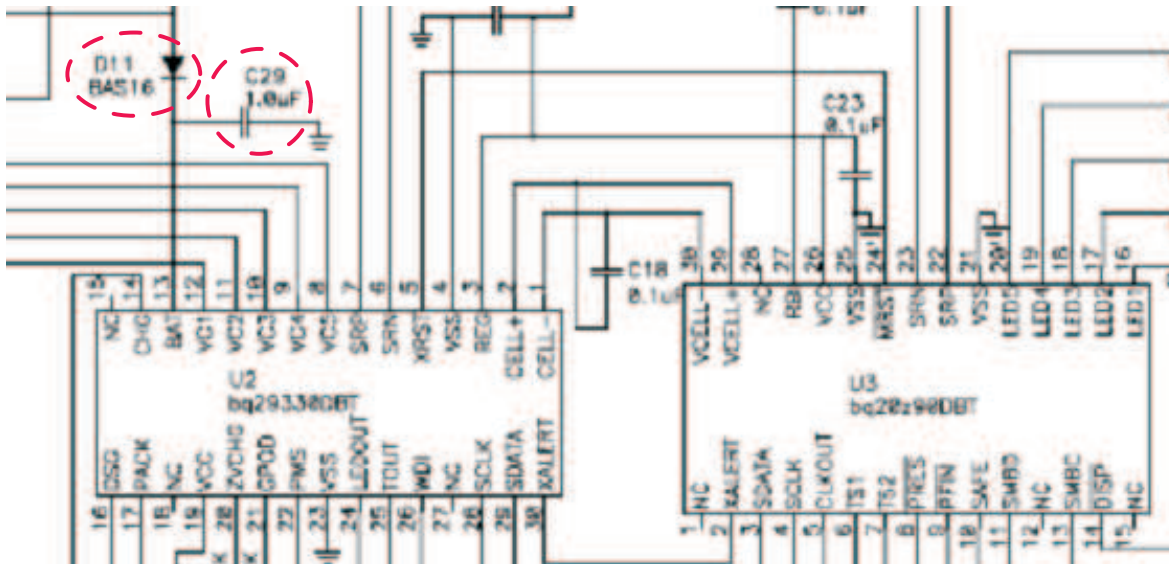


Figure 1. Components Required to Modify the Current bq20z90-EVM from Rev A to Rev B

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