Battery Tester Reference Design for High Current Application

Bias Supply

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**Legend:**
- EN: Enable
- VSET: 4.2VDC
- V_LV: 0-4.1V
- V_HV: 12VDC
- V+ (Green)
- V- (Yellow)
- AGND

**MOSFETs:**
- Q16
- Q18
- Q18
- Q18
- Q18
- Q18

**Resistors:**
- R77 (4.2kΩ)
- R78 (20.0kΩ)
- R80 (1.00kΩ)
- R83 (4.42kΩ)
- R85 (2.2kΩ)
- R86 (10.0kΩ)
- R87 (26.7kΩ)

**Capacitors:**
- C90 (0.1µF)
- C91 (100pF)
- C92 (0.01µF)
- C93 (1µF)
- C94 (4700pF)
- C95 (0.01µF)
- C96 (2.2µF)
- C97 (4.7µF)

**ICs:**
- LM6142AIM/NOPB
- SN74LV1T00DBVR
- 2N7002E-T1-E3

**Other Components:**
- 1.0N4448WX-TP

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**Assembly Variant:**
- TIDA-01040

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