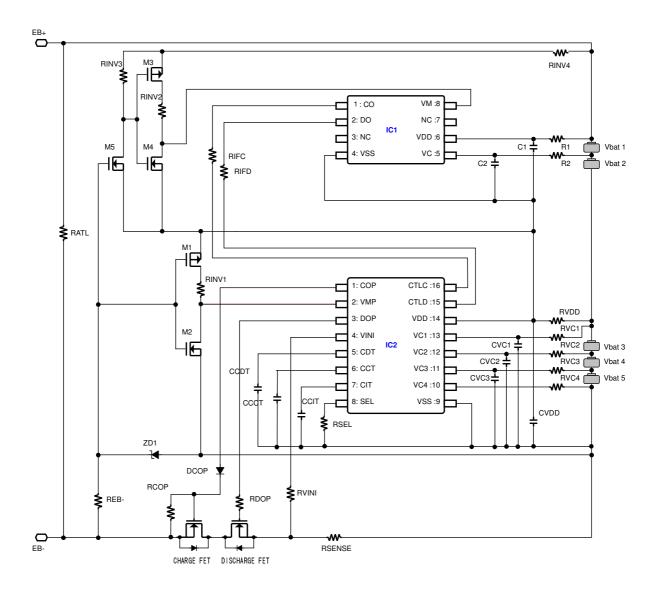
## 5 Cell Reference circuit with OCP



## Parts list

| Parts list |        |       |                    |            |        |           |  |  |  |  |
|------------|--------|-------|--------------------|------------|--------|-----------|--|--|--|--|
| No.        | Symbol | Value | Unit               | Parts name | Maker  | Note      |  |  |  |  |
| 1          | IC1    | -     | -                  | S-8242B    | SII    | Must      |  |  |  |  |
| 2          | IC2    | -     | -                  | S-8204B    | SII    | Must      |  |  |  |  |
| 3          | R1     | 100   | Ω                  | MCR03      | ROHM   | Recommend |  |  |  |  |
| 4          | R2     | 1     | $\mathrm{k}\Omega$ | MCR03      | ROHM   | Recommend |  |  |  |  |
| 5          | C1     | 1     | uF                 | GRM188B    | Mulata | Recommend |  |  |  |  |
| 6          | C2     | 0.1   | uF                 | GRM188B    | Mulata | Recommend |  |  |  |  |
| 7          | RVDD   | 47    | Ω                  | MCR03      | ROHM   | Recommend |  |  |  |  |
| 8          | RVC1   | 1     | kΩ                 | MCR03      | ROHM   | Recommend |  |  |  |  |
| 9          | RVC2   | 1     | $\mathrm{k}\Omega$ | MCR03      | ROHM   | Recommend |  |  |  |  |
| 10         | RVC3   | 1     | $\mathrm{k}\Omega$ | MCR03      | ROHM   | Recommend |  |  |  |  |
| 11         | RVC4   | 1     | kΩ                 | MCR03      | ROHM   | Recommend |  |  |  |  |
| 12         | CVDD   | 1     | uF                 | GRM188B    | Mulata | Recommend |  |  |  |  |
| 13         | CVC1   | 0.047 | uF                 | GRM188B    | Mulata | Recommend |  |  |  |  |
| 14         | CVC2   | 0.047 | uF                 | GRM188B    | Mulata | Recommend |  |  |  |  |
| 15         | CVC3   | 0.047 | uF                 | GRM188B    | Mulata | Recommend |  |  |  |  |
| 16         | CCCT   | 0.1   | uF                 | GRM188B    | Mulata |           |  |  |  |  |
| 17         | CCDT   | 0.1   | uF                 | GRM188B    | Mulata |           |  |  |  |  |
| 18         | CCIT   | 0.1   | uF                 | GRM188B    | Mulata |           |  |  |  |  |
| 19         | RSEL   | 1     | kΩ                 | MCR03      | ROHM   | Recommend |  |  |  |  |
| 20         | RVINI  | 1     | $\mathrm{k}\Omega$ | MCR03      | ROHM   | Recommend |  |  |  |  |
| 21         | RCOP   | 1     | $M\Omega$          | MCR03      | ROHM   | Recommend |  |  |  |  |
| 22         | RDOP   | 51    | kΩ                 | MCR03      | ROHM   | Recommend |  |  |  |  |
| 23         | DCOP   | -     | -                  | 1ss355     | ROHM   | Recommend |  |  |  |  |
| 24         | RSENSE | -     | -                  | -          | -      |           |  |  |  |  |
| 25         | RIFC   | 4.3   | $M\Omega$          | MCR03      | ROHM   | Must      |  |  |  |  |
| 26         | RIFD   | 4.3   | $M\Omega$          | MCR03      | ROHM   | Must      |  |  |  |  |
| 27         | M1     | -     | -                  | 2SJ210     | NEC    | Recommend |  |  |  |  |
| 28         | M2     | -     | -                  | 2SK4035    | NEC    | Recommend |  |  |  |  |
| 29         | M3     | -     | -                  | 2SJ210     | NEC    | Recommend |  |  |  |  |
| 30         | M4     | -     | -                  | 2SK1590    | NEC    | Recommend |  |  |  |  |
| 31         | M5     | -     | -                  | 2SK1590    | NEC    | Recommend |  |  |  |  |
| 32         | RINV1  | 5.1   | $\mathrm{k}\Omega$ | MCR03      | ROHM   | Must      |  |  |  |  |
| 33         | RINV2  | 5.1   | $\mathrm{k}\Omega$ | MCR03      | ROHM   | Recommend |  |  |  |  |

| 34 | RINV3     | 10  | ΜΩ                 | MCR03   | ROHM | Must      |
|----|-----------|-----|--------------------|---------|------|-----------|
| 35 | RINV4     | 100 | Ω                  | MCR03   | ROHM | Recommend |
| 36 | REB-      | 2   | $\mathrm{M}\Omega$ | MCR03   | ROHM | Must      |
| 37 | RATL      | 20  | $\mathrm{M}\Omega$ | -       | -    | Recommend |
| 38 | ZD1       | -   | 1                  | UDZS27B | ROHM | Recommend |
| 39 | CHARGE    |     | -                  | -       | -    |           |
|    | FET       |     |                    |         |      |           |
| 40 | DISCHARGE | -   | -                  | -       | -    |           |
|    | FET       |     |                    |         |      |           |

## Caution

Above circuit is only for reference. It has not been confirmed whether the operation of above circuit is normal or not for all application, the example of connection and the constant do not guarantee proper operation. Please evaluate above circuit carefully with your real application condition before using it.