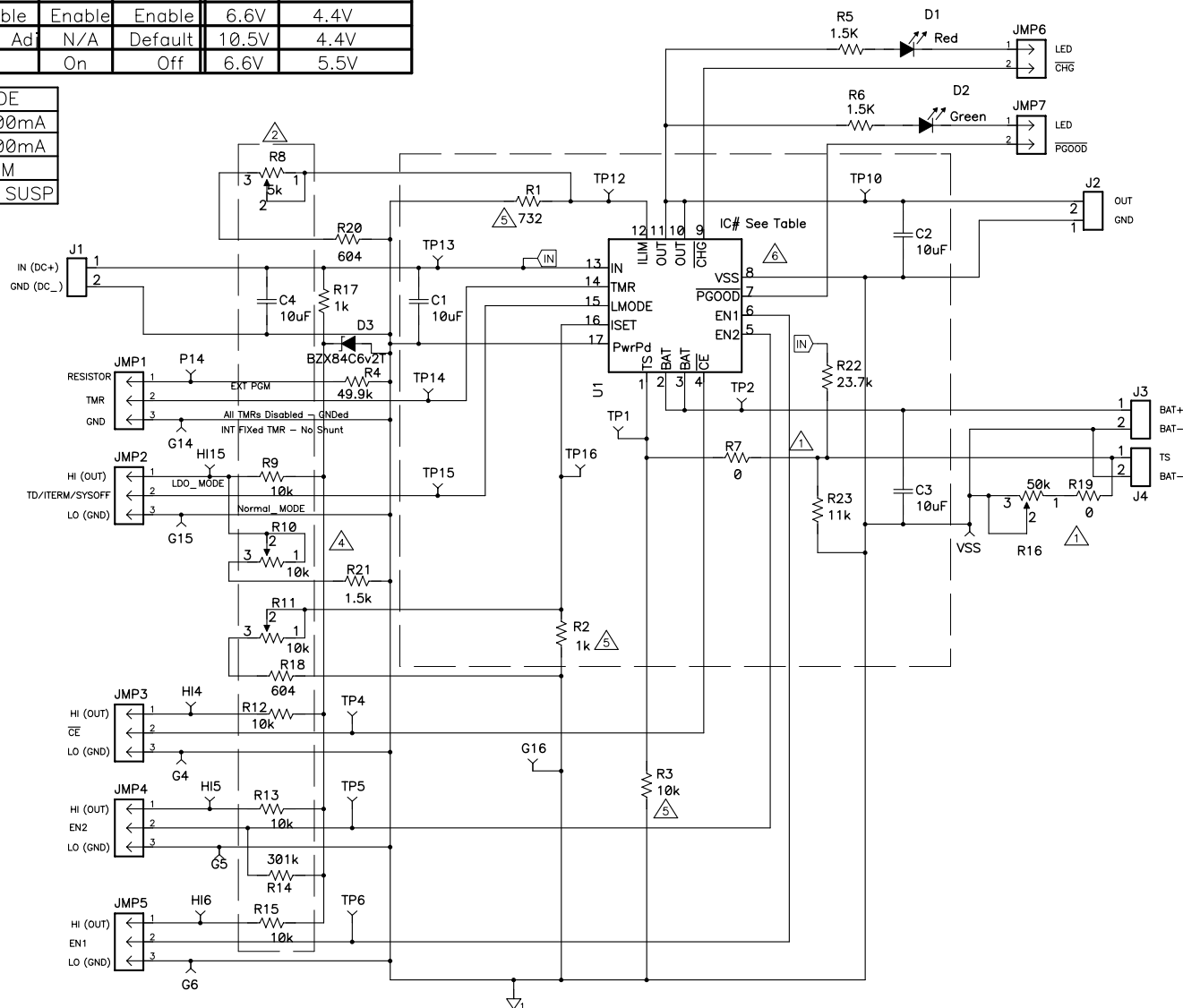


For all ICs Pin 15 is the unique pin. The '7x are for higher current and '23x for lower current.
 bq24072/3/4/5/9(T) = '72 or '73 or '74 or '75 or '79 or '79T
 bq24230/2 = '230 or '232

| Jumper | JMP - 2 | | | | |
|--------------------|---------|--------|---------|-------|------------|
| Signal U1-15_IC | HI | LOW | FLOAT | OVP | VOUT |
| TD '72 | Disable | Enable | Enable | 6.6V | VBAT+200mV |
| TD '73, '230 | Disable | Enable | Enable | 6.6V | 4.4V |
| ITERM '74, '232 | POT Ad | N/A | Default | 10.5V | 4.4V |
| SYSOFF '75, '79(T) | Off | On | Off | 6.6V | 5.5V |

| EN2 | EN1 | MODE |
|-----|-----|---------|
| 0 | 0 | 100mA |
| 0 | 1 | 500mA |
| 1 | 0 | ILIM |
| 1 | 1 | CE SUSP |



- 1 There are two types of TS control 1) Voltage based – R7, R22 and R23 installed (R3 not installed & 2) Current based – No resistors required (R3, R7, R22, R23, R19 and R16, but apply short to R7) or an optional adjustment using R3 and R7. A "thermistor" is required either externally or on the PCB: R19 and R16 can be used in place of the thermistor for either TS type or R3 can replace all the resistors for the current based.
- 2 Resistors, in dotted box, typically not needed in a design but used here to assist in evaluation of the IC or to protect the EVM from incorrect input connections (R8 through R14). C4 may be used, if needed, for higher current applications.
- 3 Resistors, in the dashed box are the required components for a simplified design. Components outside the dashed box are optional components. See data sheet for more detail on desired features.
- 4 R10 is used for the ITERM feature found only on bq24078(T)
- 5 Not used See BOM for different Configurations.
- 6 Refer to Data sheet to if a "T" version of the the IC is available. The "T" (bq24072T) implies that the TS pin is voltage based instead of current based.

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| | | | | | |
|----------|------------------|-----|--------------------|-----|------|
| Title | | | bq24072/3/4/5/9(T) | | |
| Size | Number | Rev | | | |
| C | HPA282 / HPA502 | B | | | |
| Date | Tue Jul 14, 2009 | | Drawn by | CHM | |
| Filename | HPA282B_UG.sch | | Sheet | 1 | of 1 |

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