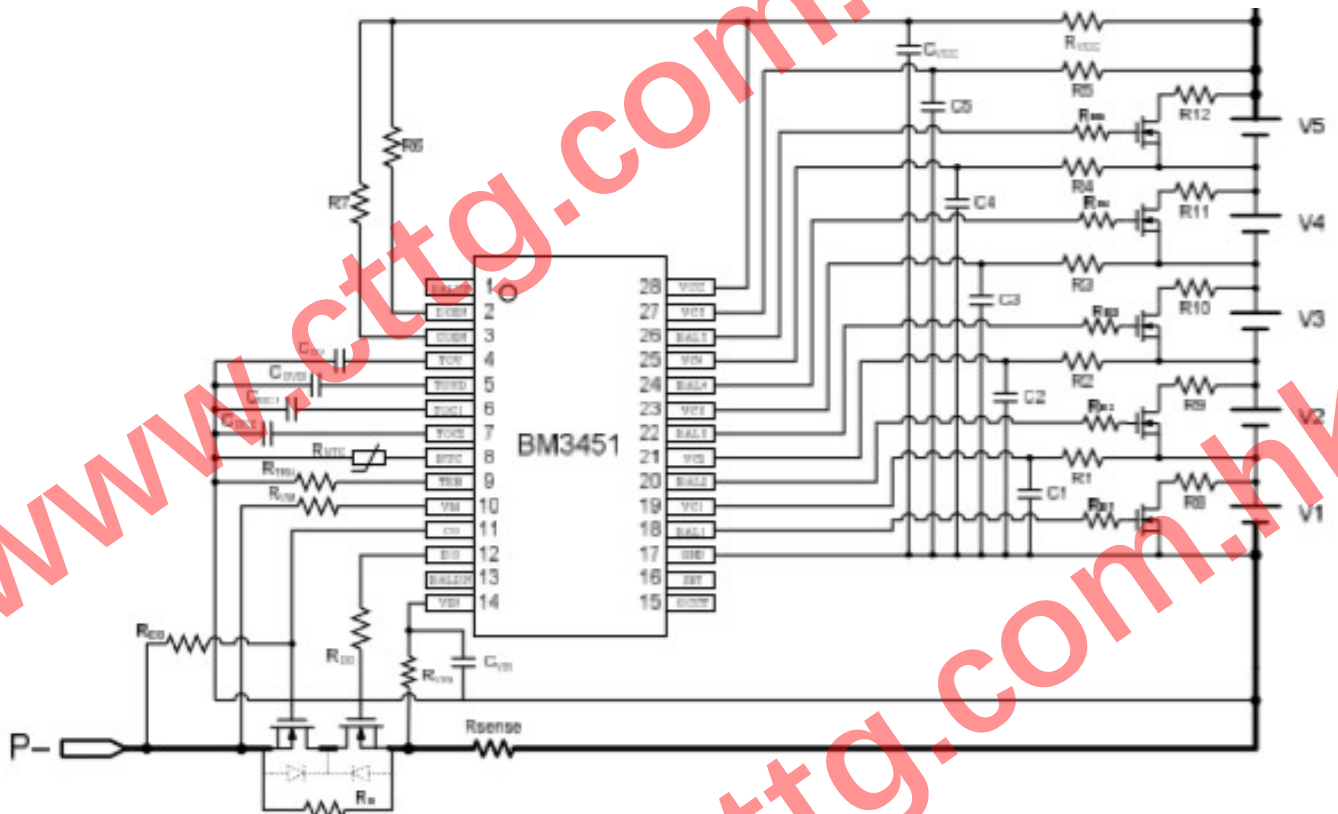


- **Low power consumption**
 - Operation mode (with Temp protection) 25 uA typical
 - Operation mode (without Temp protection) 15 uA typical
 - Sleeping mode 6 uA typical
- **Environmental friendly material, Pb free, halogen free**
- **Package**
 - TSSOP20
 - TSSOP28

Application Circuits:



Application area:

- ✓ Power tool
- ✓ Garden tool
- ✓ Electric bicycle
- ✓ UPS backup power supply
- ✓ Vacuum cleaner



Type/Item	Overcharge protection voltage V_{DET1}	Overcharge release voltage V_{REL1}	Over-discharge protection voltage V_{DET2}	Over-discharge release voltage V_{REL2}	Discharge overcurrent 1 detection voltage V_{OC1}	Discharge overcurrent 2 detection voltage V_{OC2}	Short circuit detection voltage V_{short}	Short circuit detection voltage V_{OVCC}	Balanced start voltage
BM3451BHDC-T28A	3.650V	3.550V	2.350V	2.550V	0.100V	0.300V	0.600V	-0.100V	3.405V
BM3451HEDC-T28A	3.850V	3.790V	2.000V	2.500V	0.100V	0.400V	0.800V	-0.050V	3.590V
BM3451SMDC-T28A	4.225V	4.165V	2.750V	3.000V	0.100V	0.400V	0.800V	-0.050V	4.165V
BM3451TNDC-T28A	4.250V	4.190V	2.800V	3.000V	0.100V	0.400V	0.800V	-0.050V	4.190V
BM3451TJDC-T28A	4.250V	4.190V	2.500V	2.700V	0.100V	0.400V	0.800V	-0.050V	4.190V
BM3451VJDC-T28A	4.300V	4.240V	2.500V	2.700V	0.100V	0.400V	0.800V	-0.050V	4.240V
BM3451HEDC-T20B	3.850V	3.750V	2.000V	2.500V	0.100V	0.400V	0.800V	-0.050V	-
BM3451SMDC-T20B	4.225V	4.110V	2.750V	3.000V	0.100V	0.400V	0.800V	-0.050V	-
BM3451TNDC-T20B	4.250V	4.130V	2.800V	3.000V	0.100V	0.400V	0.800V	-0.050V	-
BM3451TJDC-T20B	4.250V	4.130V	2.500V	2.700V	0.100V	0.400V	0.800V	-0.050V	-
BM3451VJDC-T20B	4.300V	4.180V	2.500V	2.700V	0.100V	0.400V	0.800V	-0.050V	-
BM3451XJDC-T20B	4.350V	4.230V	2.500V	2.700V	0.100V	0.400V	0.800V	-0.050V	-
BM3451ZKDC-T20B	4.425V	4.300V	2.650V	3.000V	0.100V	0.400V	0.800V	-0.050V	-
BM3451TNDE-T20B	4.250V	4.130V	2.800V	3.000V	0.100V	0.200V	0.600V	-0.050V	-