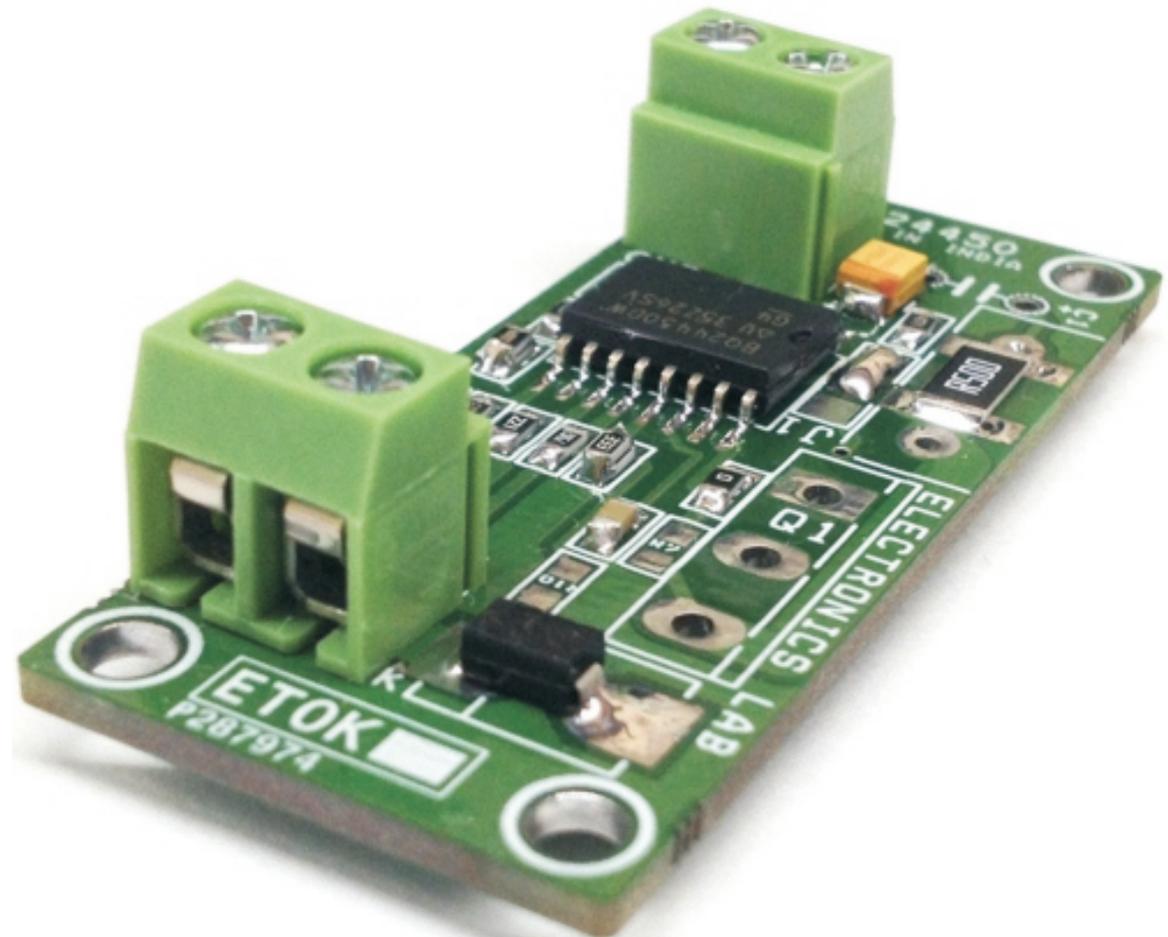


6V SLA (Lead Acid) Battery Charger Using Bq24450

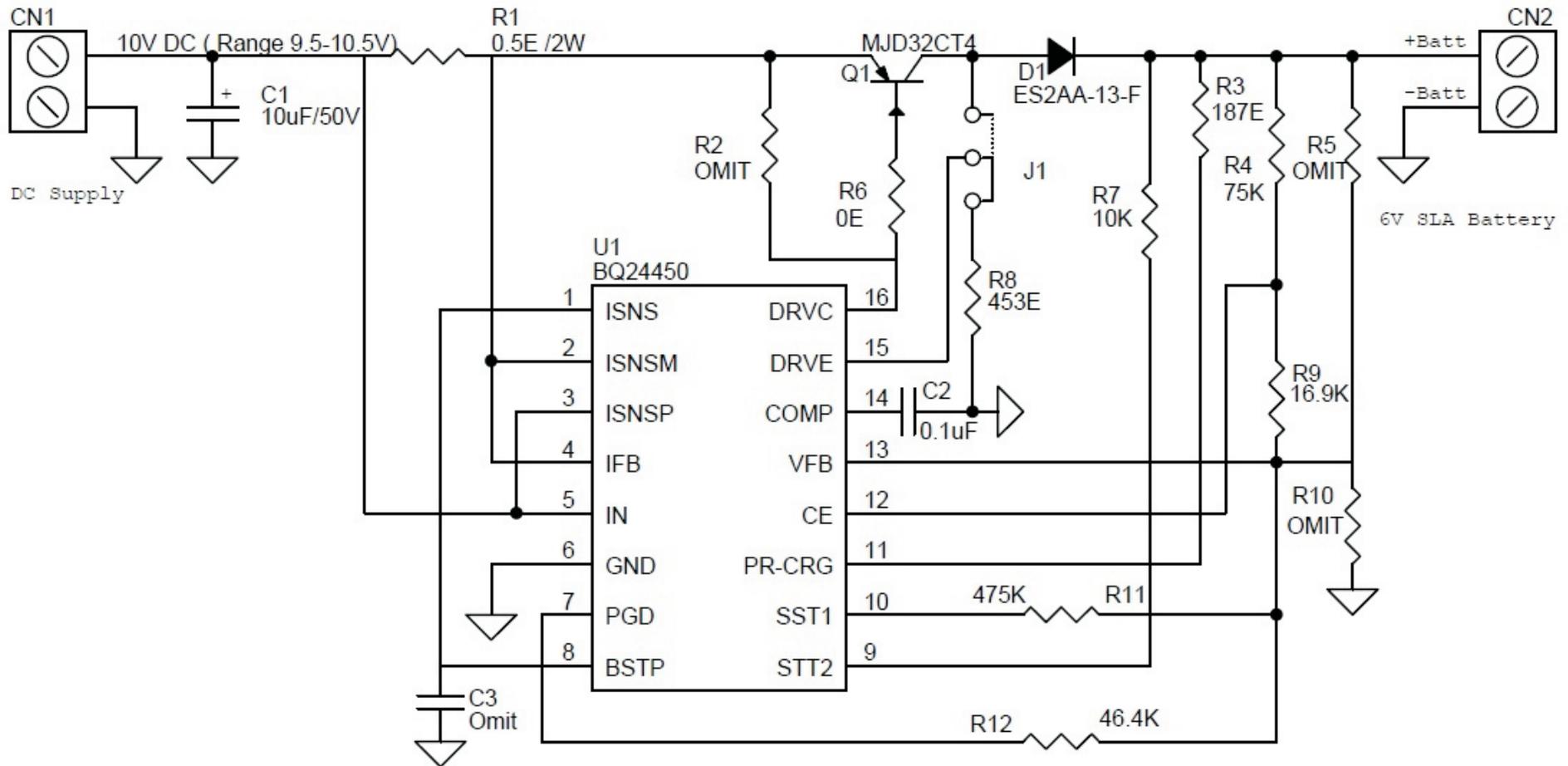
6V Lead acid (SLA) battery charger projects is based on BQ24450 IC, this charger project takes all the guesswork out of charging and maintaining your battery, no matter what season it is. Whether you have a Bike, Robot, RC Car, Truck, Boat, RV, Emergency Light, or any other vehicle with a 6v battery, simply hook this charger maintainer up to the battery, The circuit uses BQ24450 IC from Texas instruments. The bq24450 contains all the necessary circuitry to optimally control the charging of lead-acid batteries. The IC controls the charging current as well as the charging voltage to safely and efficiently charge the battery, maximizing battery capacity and life. The IC is configured as a simple constant-voltage float charge controller. The built-in precision voltage reference is especially temperature-compensated to track the characteristics of lead-acid cells, and maintains optimum charging voltage over an extended temperature range without using any external components. The low current consumption of the IC allows for accurate temperature monitoring by minimizing self-heating effects. In addition to the voltage- and current-regulating amplifiers, the IC features comparators that monitor the charging voltage and current. These comparators feed into an internal state machine that sequences the charge cycle.

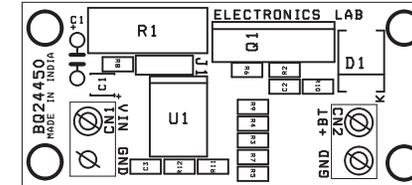
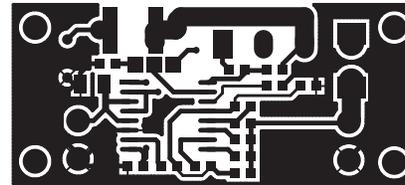
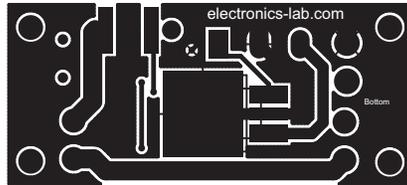
Features

- Supply 10V DC
- Screw Terminals For DC Supply Input & Battery
- Supply Current 1Amp
- Load Current 500mA
- Regulate Voltage & Current during charging
- Regulates Both Voltage and Current During
- Precision Temperature-Compensated Reference



6V SLA (Lead Acid) Battery Charger Using Bq24450





BOM			
SR.	QNTY.	REF.	DESC.
1	2	CN1,CN2	2 PIN SCREW TERMINAL
2	1	C1	10uF/50V SMD 1210
3	1	C2	0.1uf SMD 0805
4	1	D1	ES2AA-13-F
5	1	J1	Solder Jumper
6	1	Q1	MJD32CT4 SMD DPAK
7	1	R1	0.5E /2W SMD 2512
8	1	R8	0E SMD 0805
9	1	R3	187E SMD 0805 1%
10	3	R2,R5,R10	OMIT
11	1	R9	16.9K SMD 0805 1%
12	1	R4	75K SMD 0805 1%
13	1	R11	475K SMD 0805 1%
14	1	R12	46.4K SMD 0805 1%
15	1	U1	BQ24450 SMD
16	1	C3	Omit
17	1	R7	10K SMD 0805 1%