SMTBlinky

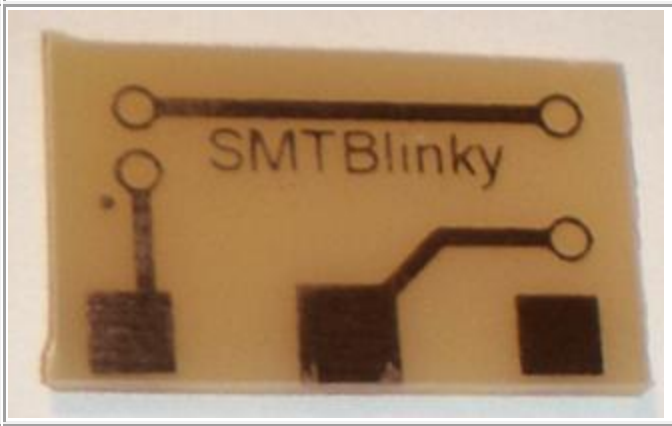
Step	Picture	Detail

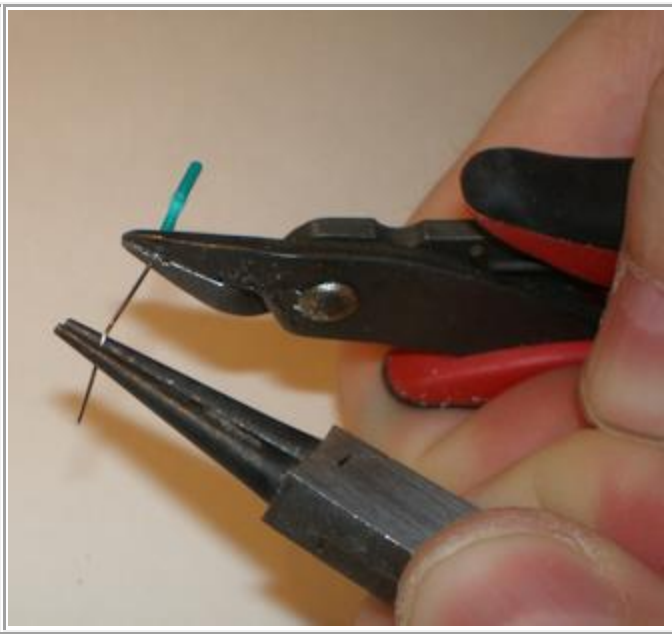
ABOUT

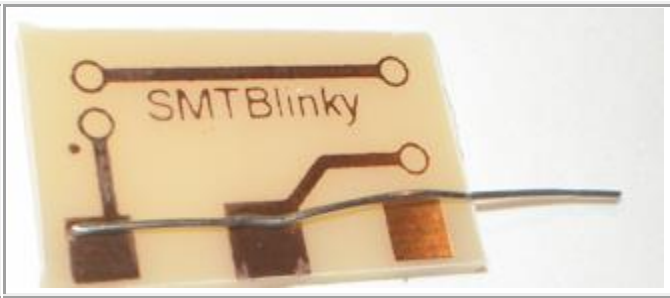
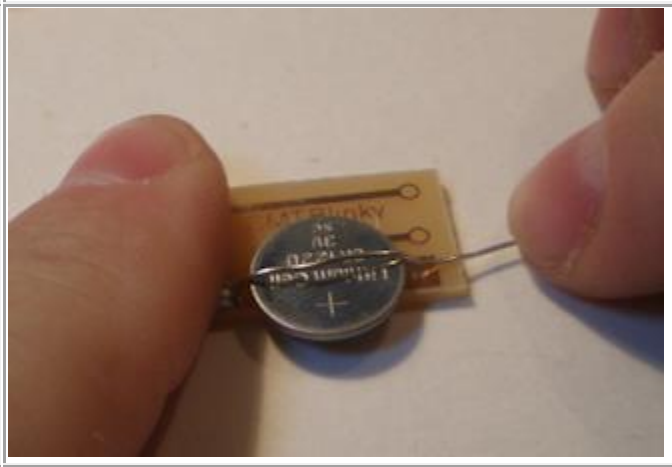
While working on the SMTTester,
I realized that a tiny blinky led would be really cool.
Turns out the cheapest way to make an SMTBlinky,
Was to use a conventional blinking LED.

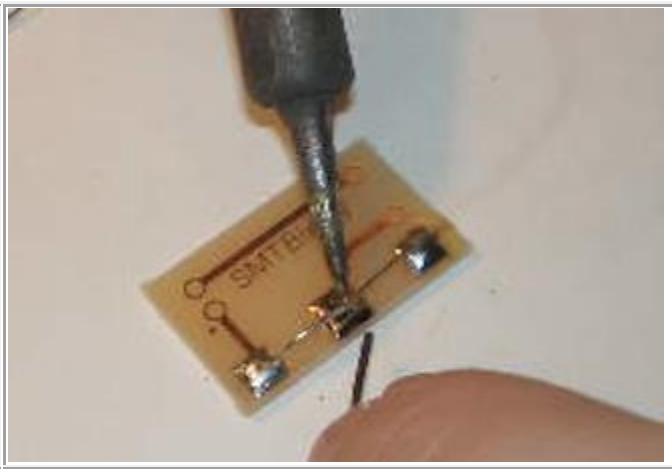
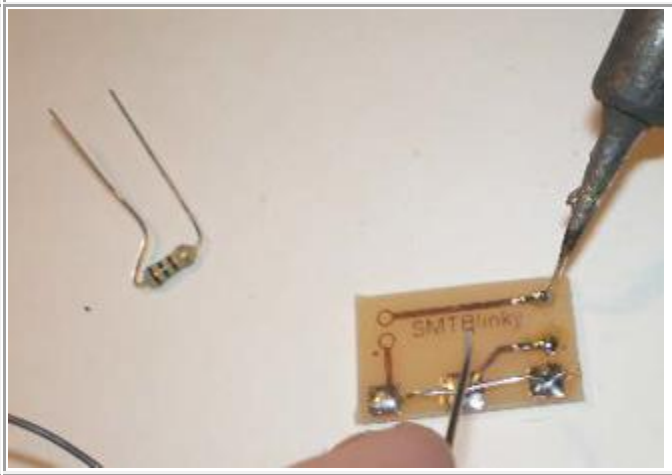
SMTBlinky designed by Charley Jones, PMP
aka Dataman
For SMTBoards.Com
4/2011

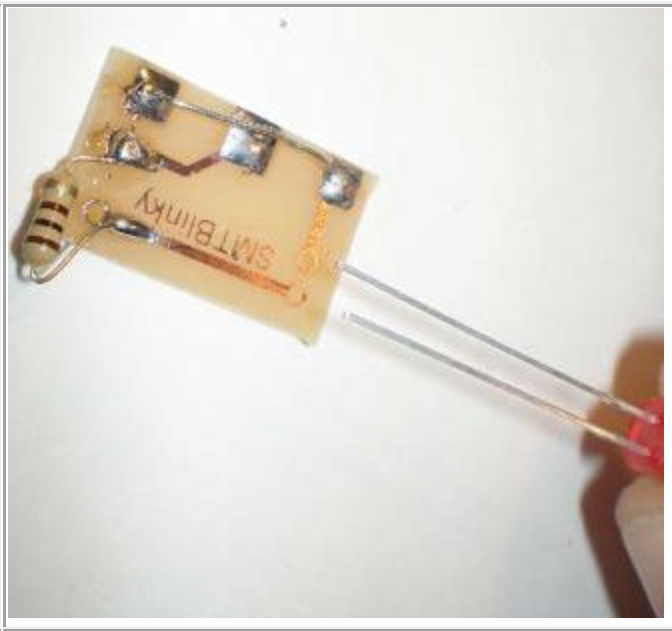
PARTS LIST

1		Kit as distributed Available soon.
1a		Kit Contents, Details follow.
1b		SMTBlinky Board
1c		Blinking LED Note: the longer lead is +. The shorter lead is -.
1d		100ohm resistor 1/4 watt
1e		Small strip of wire

REQUIRED / NOT PROVIDED		
2		CR1220 3V Battery.
ASSEMBLY INSTRUCTIONS		
3		Begin by stripping the wire.

4		Place the wire across the battery pads, with the excess to the right. Drop a glop of solder on the left pad to hold the wire in place.
5		Next, place the battery under the wire as a spacer. Push down on the wire till it meets the right pad. Battery should be snug. Don't worry if it's a little loose, we'll fix that later.
6		Drop a glop of solder on the right pad, head the glop and with another tool, push the wire into the glop. Remove the heat and wait for the solder to cool before removing the hold down tool.

7		To make the battery snug, drop a bit of solder onto the center pad. Not too much.
8		Drop two glops of solder on the pads to the right. Bend the resistor as shown.
9		Solder the straight leg to the pad nearest the battery. Try to solder as close to the edge as possible to avoid interfering with the battery. Finish by soldering to to the topmost glop.

10		The LED must be soldered in the proper orientation. The longer leg is soldered on the battery side.
11		Bend the LED at a right angle near the lens portion. Sit the LED onto the glops you just made and heat to lock in place. You may apply more solder if needed. Be sure not to bridge the gap between the two pads. Clip when done.

12		Next, you may carefully bend the resistor more onto the board. You may do the same for the LED. Be very careful not to overdo or you may pull a trace off the board.
13		Next, insert the battery till snug. It does not need to fit all the way onto the board.
USAGE INSTRUCTIONS		

14		Our record is 57 hours continuous on 1 battery. Use them as trail markers, toppers for toy fire trucks, scary Halloween blinky eyes, or anything else you can imagine. To preserve battery life, remove battery when not in use.