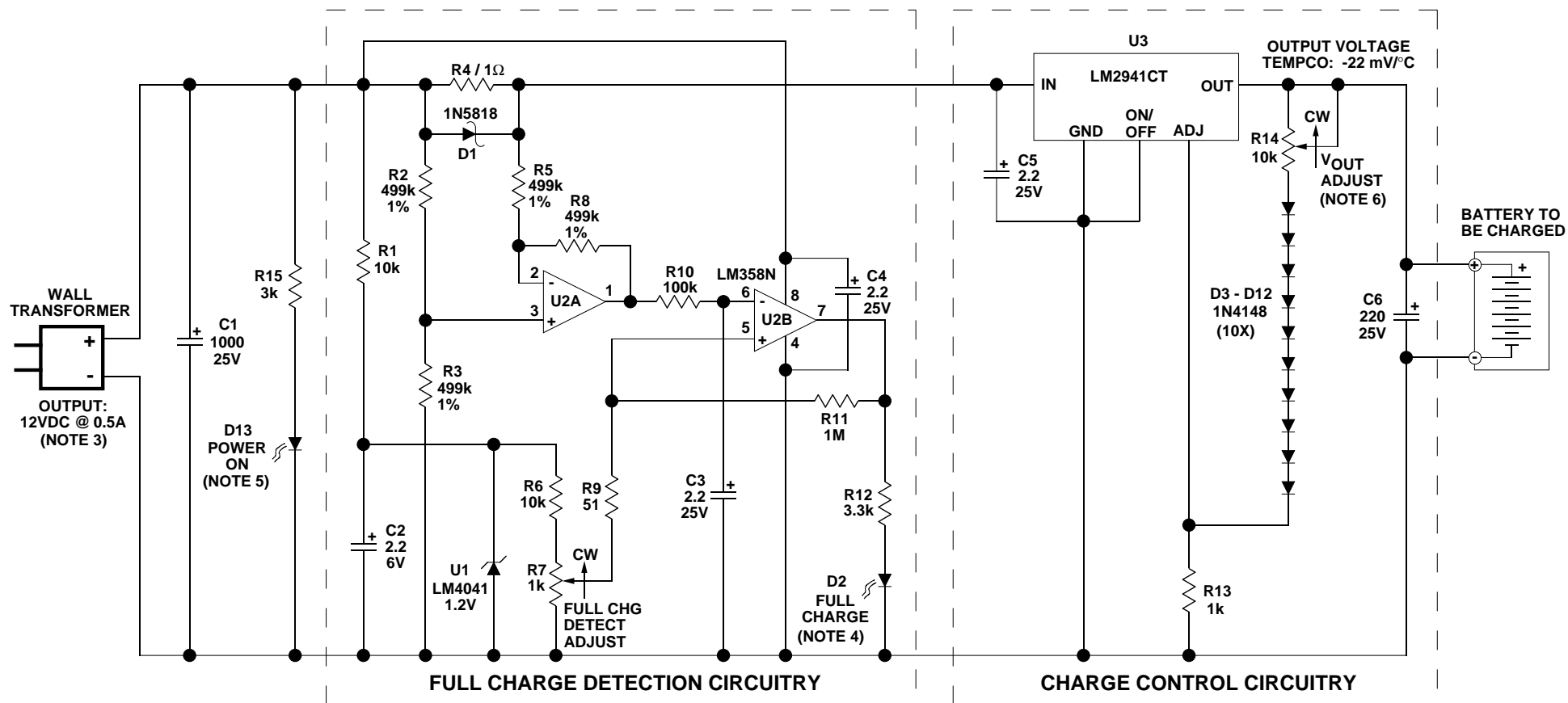


# 0.5A CHARGER FOR 12V LEAD-ACID BATTERIES



NOTES (Unless otherwise specified):

- 1) All resistors are in Ohms, 1/4W, 5%.
- 2) Capacitor values are in  $\mu\text{F}$ . All capacitors are aluminum electrolytic.
- 3) Use any AC-DC wall transformer rated 12VDC output at 0.5A (similar to Digi-Key #T502-ND).
- 4) This LED lights when the battery is fully charged. To calibrate: connect battery to output and allow it to fully charge for at least 12 hours. Then, rotate R7 fully counter-clockwise and then turn R7 clockwise just past the point where the LED turns on.
- 5) This LED lights when input power is present.
- 6) To set battery charger output voltage: with battery NOT connected, adjust R14 until the output of U3 is 13.5V.