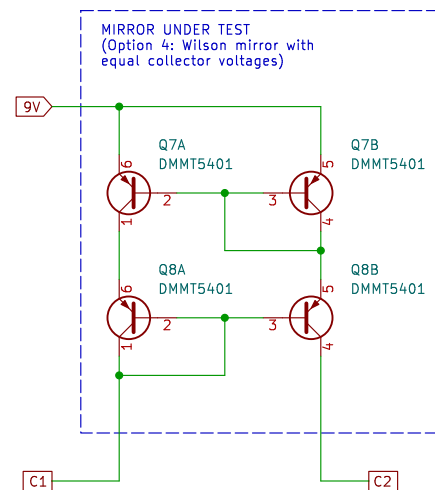
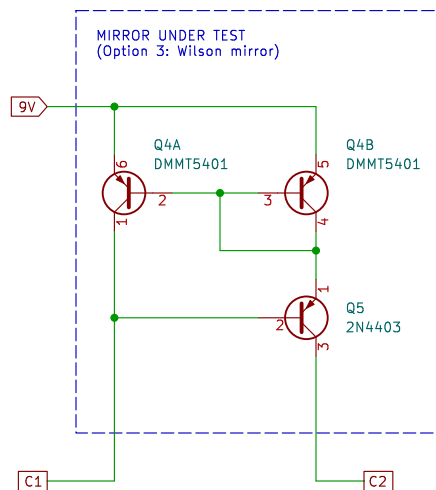


Choose resistors to drop a few tenths of a volt at the smallest intended current.



The upper and lower pairs of transistors should both be matched as closely as possible in  $V_{be}$ .

Both options 3 and 4 may have emitter resistors added.

Option 4 (with emitter degeneration) is the internal circuit of the REF200 IC, a current mirror balanced to  $\pm 0.25\%$



#### Other mirror configurations

Transistors 101

Eposode 12: They Do It with Mirrors

**Kludges from Kevin's Cave**

Sheet: /Option 2/

File: option\_2\_wilson\_sch.kicad\_sch

#### Title: Current Mirror Demonstrator

Size: USLetter Date: 2024-10-28

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