



$Q1 = \text{BUK9511-55A127} \rightarrow 3.6\{\text{Aref}\}/(11 \cdot 10^{-3}\{\text{rds}\} \cdot 6\{\text{current}\}) = 54.54/10\{\text{U2B}\} = 5.45$
 $Q1 = \text{IRLZ44NPBF} \rightarrow 3.6\{\text{Aref}\}/(35 \cdot 10^{-3}\{\text{rds}\} \cdot 6\{\text{current}\}) = 17.14/10\{\text{U2B}\} = 1.74$
 $R1 = 10k\{R15\}/5.45 = 1.83k\{2.2k\}$
 $R15 = 2.2k\{R1\} \cdot 1.74 = 3.828k$ or $R1 = 10k\{R15\}/1.74 = 5.74k\{\text{Best}, 4.7k\}$

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File: ATTiny85-mppt.sch

Title: Simple MPPT with ATtiny85

Size: A4 Date: 2018-10-25

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