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) so  $4 = I_D ( 4 \times 10^3 ) + V_D$  and  $I_D = 4 \times 10^3 \exp \left( \frac{V_D}{0.026} \right) \left( 1 + \frac{V_D}{0.026} \right)$

By trial and error, we find  $I_D = 0.866$  mA and  $V_D = 1.2$  V

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