Graphical solution for voltage and current through diode. $I_R = I_s e^{v/v_{th}}$ 0.010 V: 0.649 V, I: 9.36 mA $I_D = \frac{V_S - v}{R}$ Solution Characteristic point 0.008 0.006 Current [A] 0.004 0.002 V: 0.600 V, I: 1.42 mA 0.000 10 Voltage [V]