$$i_{D} = \begin{cases} 2 \times 10^{-3} v_{D}^{2}, & v_{D} \ge 0 \\ -I_{o}, & v_{D} < 0 \end{cases} \qquad \underbrace{1.2 \, k\Omega}_{1} \underbrace{D_{1}}_{1} + \underbrace{V_{o}}_{2}$$