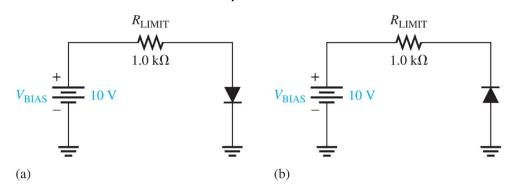
Electronic Engineering

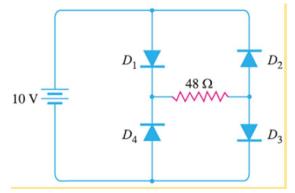
Sheet # 1: Diodes

- Determine the forward voltage and forward current for the diode in the Figure

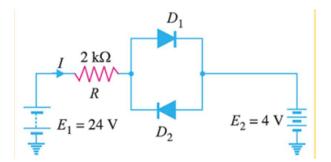
 (a) for each of the diode models. Also find the voltage across the limiting
 resistor in each case. Assume rd'= 10 ohm at the determined value of forward
 current.
- 2- Determine the reverse voltage and reverse current for the diode in the Figure (b) for each of the diode models. Also find the voltage across the limiting resistor in each case. Assume $I_R = 1 \mu A$.



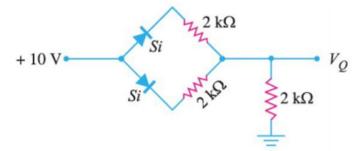
3- Calculate the current through 48 Ω resistor in the circuit shown in the Figure. Assume the diodes to be of silicon and forward resistance of each diode is 1 Ω .



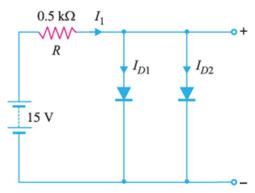
4- Determine the current I in the circuit shown in the Figure. Assume the diodes to be of silicon and forward resistance of diodes to be zero.



5- Find VQ and ID in the network shown. Use practical model.



6- Determine current through each diode in the circuit shown. Use practical model. Assume diodes to be similar .



7- Determine the currents I1, I2, I3 for the network shown. Use practical model for the diodes.

