

P N JUNCTION DIODE Multiple Choice Questions - 2

- The arrow direction in the diode symbol indicates
 - Direction of electron flow.
 - Direction of hole flow (Direction of conventional current)
 - Opposite to the direction of hole flow
 - None of the above
- The knee voltage (cut in voltage) of Si diode is
 - 0.2 V
 - 0.7 V
 - 0.8 V
 - 1.0 V
- When the diode is forward biased, it is equivalent to
 - An off switch
 - An On switch
 - A high resistance
 - None of the above
- Under normal reverse bias voltage applied to diode, the reverse current in Si diode
 - 100 mA
 - order of μA
 - 1000 μA
 - None of these
- Avalanche breakdown in a diode occurs when
 - Potential barrier is reduced to zero.
 - Forward current exceeds certain value.
 - Reverse bias exceeds a certain value.
 - None of these
- Reverse saturation current in a Silicon PN junction diode nearly doubles for very
 - 2° rise in temp.
 - 5° rise in temp.
 - 6° rise in temp.
 - 10° rise in temp.

7. A forward potential of 10V is applied to a Si diode. A resistance of 1 K Ω is also in series with the diode. The current is
- a. 10 mA b. 9.3 mA c. 0.7 mA d. 0
8. In the diode equation, the voltage equivalent of temperature is
- a. 11600/T b. T/11600 c. T x 11600 d. 11600/T²
9. Barrier potential at the room tem. (25⁰ C) is 0.7V, its value at 125⁰ C is
- a. 0.5 V b. 0.3 V c. 0.9 V d. 0.7 V
10. When a reverse bias is applied to a diode, it will
- a. Raise the potential barrier
b. Lower the potential barrier
c. Increases the majority-carrier a current greatly
d. None of these

Answers

1. (b) 2. (b) 3. (b) 4. (b)
5. (c) 6. (d) 7. (b) 8. (b)
9. (a) 10. (a)