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Characteristics in Forward and Reverse Bias

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With

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:-1. What is a zener diode? Zener diode is a p-n junction diode specially designed for operation in the breakdown region in reverse bias condition. 2. Define what is zener voltage? The voltage at which the

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zener diode breaks down is called the zener voltage. 3. What is meant by the temperature coefficient?

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Zener Diode Multiple Choice Questions Answers; 41. In a Zener diode with high breakdown voltage. A.

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Both P and N are heavily doped. B.
Both P and N are lightly doped. C.
Either P or N is lightly doped. D. None of the above

Zener Diode Multiple Choice Questions Answers ...

Zener Diode Characteristics

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Experiment Questions: Draw the reverse characteristics of zener diode and determine its break down voltage.

Viva Questions: 1. What are break down diodes or zener diodes? Diodes which are designed with adequate power dissipation capabilities to operate in the break down region are

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called as break down or zener diodes.

Exp No:1 Diode characteristics

Experiment Questions: Viva ...

Viva Questions: 1. What is the difference between p-n Junction diode and zener diode? Ans: A zener is designed to operate stably in reverse

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breakdown, which is designed to be at a low voltage, between 3 volts and 200 volts. The breakdown voltage is specified as a voltage with a tolerance, such as 10 volts $\pm 5\%$, which means the breakdown voltage (or operating voltage) will be between 9.5 volts and 10.5 volts.

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*Electronic Devices and Circuits Lab
Notes: Zener Diode ...*

Viva Voce. Resources. Feedback. 1)
The value of reverse current after the
zener breakdown is called? Forward
current. Zener current. Direct current.
... What is true about the breakdown

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voltage in a Zener diode? It is approximately constant. It equals the electric current times the resistance. It destroys the diode.

*Zener Diode (Viva Voce) : Class 12 :
Physics : Amrita ...*

(ii) If the zener diode is short [See Fig.

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10 (ii)], you will measure V_0 as 0V. The same problem could also be caused by a shorted load resistor (= 5k?) or an opened source resistor (= 1 k?). The only way to tell which device has failed is to remove the resistors and check them with an ohmmeter. If the resistors are good, then zener

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diode is bad.

*Solved Problems On Zener Diode -
Electronics Post*

15) How the width of the depletion region in the reverse biased diode varies with the impurity concentration?

16). How the value of the potential

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barrier depends on the amount of doping of the semiconductor? 17). Why the silicon diode is preferred compare to germanium diode? 18). Under what condition a zener diode behaves like an ordinary p-n junction diode? 19). What is the main application of a zener diode? 4.

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Physics Lab (15PHYL 17/27) Viva Questions

(ii) Zener diode. [All India 2010 c]

Ans. Circuit diagram of illuminated photo diode in reverse bias is shown below: 26. Write the main use of the (i) photo diode (ii) Zener diode [All India

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2010 c] Ans. Main use of photo diode
In demodulation of optical signal and
detection of optical signal. Main use of
Zener diode As DC voltage regulator.

*Important Questions for CBSE Class
12 Physics ...*

When the V_z is greater than 8 volts in

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a Zener diode, avalanche breakdown occurs because there is an isolation of electrons and holes. Avalanche Breakdown Avalanche breakdown is defined as the process of applying a high voltage which increases the number of free electrons in the semiconductors and insulating

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materials.

Which Breakdown Occurs In Zener Diode? - BYJU'S

5. In Zener diode, the breakdown is due to Zener, has a doping (A) Lowest (B) Moderate (C) High (D) Low.

Answer. Answer: (C) High. 6. In a

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Zener diode (A) Negative resistance characteristic exists (B) Forward voltage rating is high (C) Sharp breakdown occurs at a low reverse voltage (D) All of the above. Answer

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A Zener Diode, also known as a breakdown diode, is a heavily doped semiconductor device that is designed to operate in the reverse direction. When the voltage across the terminals of a Zener diode is reversed and the potential reaches the Zener Voltage (knee voltage), the junction breaks

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down and the current flows in the reverse direction.

Zener Diode - Explanation, Working, Applications, Circuit ...

6. Nature of graph for reverse has been mentioned in question 4. 7. Material used can be Silicon, germanium,

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selenium. 8. i) Zener diode operates in both modes. A P-N junction diode can get destroyed if it is used in reverse biased heavily. ii) Zener diode is sharply doped and P-N junction diode is moderately doped.

VIVA QUESTIONS:[1] What is a P-N

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junction diode?12] In ...

Viva Voce. Resources. Feedback. 1)
The value of reverse current after the zener breakdown is called? Forward current. Direct current. Zener current.
... What is true about the breakdown voltage in a Zener diode? It is approximately constant. It equals the

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electric current times the resistance. It decreases when electric current increases.

*Zener Diode (Viva Voce) : Class 12 :
Physics : Amrita ...*

Zener Diode Voltage Regulators S
Bharadwaj Reddy June 3, 2017

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December 12, 2018 Zener Diodes can be used to produce a stabilised voltage output with low ripple under varying load current conditions.

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VIVA VOCE QUESTIONS -

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SEMICONDUCTORS Q.1.What is a semiconductor ? Ans. It is a substance with conduction properties between metals and insulators. ... The reverse breakdown voltage of zener diode is called zener voltage. Q.20. Give an application of zener diode ? Ans. It is used as a voltage regulator.

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VIVA VOCE QUESTIONS - SEMICONDUCTORS

iii) The Dynamic forward resistance of Zener Diode is_____ iv) The Static reverse resistance of Zener Diode is_____ v) The Dynamic reverse resistance of Zener Diode is_____

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VIVA QUESTIONS: 1. What type of temperature Coefficient does the zener diode have? 2. If the impurity concentration is increased, how the depletion width effected? 3. Does ...

*ELECTRONIC DEVICES & CIRCUITS
LAB*

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Viva questions: 1Q. What is semiconductor material? 2Q. What is the difference between intrinsic and extrinsic semiconductor? 3Q. What are trivalent and pentavalent impurities? 4Q. Tell names at least three most used tri- and pentavalent impurities? 5Q. What is the depletion region of

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how it is formed?

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