

3. Device limiting operation again, load known. A shorter device could have caused this.
4. The output voltage changes as the load resistance changes.

RELATED PROBLEMS FOR EXAMPLE 3

- 3-1 5.11
3-2 The voltage will decrease by 0.45 V.
3-3 7.5 mV
3-4 $V_{D1} = -13.9$ V at 10 mA; $V_{D2} = -12.08$ V at 20 mA
3-5 $V_{\text{satmax}} = 6.77$ V; $V_{\text{satmin}} = 2.6$ V
3-6 $A_{\text{vmax}} = 0.9$; $A_{\text{vmin}} = 4.5$ mV; $A_{\text{vmax}} = 10.7$ dB
3-7 (a) 11.8 V at R_{sig} ; 12.9 V at R_{sig}
(b) 133.13
(c) 139 dB
3-8 (a) A waveform identical to Figure 3-29(a)
(b) A sine wave with a peak value of 3 V
3-9 Increase V_{D1}
3-10 approximately 0.7
3-11 Sixteen parallel branches with four LEDs in each branch.
 $A_{\text{vmax}} = 132$ V ≈ 0.2 V/10 mA = 95 dB
3-12 approximately 0.4 μ A

TRUE/FALSE QUIZ

1. T 2. T 3. F 4. F 5. T 6. F
7. T 8. T 9. T 10. T 11. T 12. T

CIRCUIT ACTION QUIZ

1. (a) 2. (b) 3. (a) 4. (a) 5. (b) 6. (a) 7. (a) 8. (b)
9. (a) 10. (a) 11. (b)

SELF-TEST

1. (a) 2. (b) 3. (a) 4. (b) 5. (a) 6. (a) 7. (a) 8. (b)
9. (a) 10. (a) 11. (b) 12. (b) 13. (b) 14. (b) 15. (a)

ANSWERS

Chapter 4

SECTION CHECKUPS

Section 4-1

Bipolar Junction Transistor (BJT) Structure

- The two types of BJTs are *npn* and *pnp*.
- The terminals of a BJT are *base*, *collector*, and *emitter*.
- The three regions of a BJT are separated by two *pn* junctions.

Section 4-2

Basic BJT Operation

- To operate as an amplifier, the base-emitter is forward-biased and the base-collector is reverse-biased.
- The emitter current is the largest.
- The base current is much smaller than the emitter current.
- The base region is very narrow compared to the other two regions.
- $I_E = 1$ mA, $I_B = 10$ μ A ≈ 1 dB mA

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