|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *RB=* | 2.00E+04 | Ohms |  |  |  |
| *RC=* | 1.00E+03 | Ohms |  |  |  |
|  |  |  |  |  |  |
| *V*1= | 1.155 | V |  |  |  |
| *VBE=* | 0.7 | V |  |  |  |
| *VRC=* | 10 | V |  |  |  |
| *IB=V1/RB=* | 5.78E-05 | A | *IC=VRC/RC=* | 1.00E-02 | A |
| *dc=IC/IB=* | 173.2 |  |  |  |  |
|  |  |  |  |  |  |
| Temperature is increased. | | | | | |
| *V*1= | 1.16 | V |  |  |  |
| *VBE=* | 0.66 | V | Temp. change= | 16 | degC |
| *VRC=* | 11 | V |  |  |  |
| *IB=V1/RB=* | 5.80E-05 | A | *IC=VRC/RC=* | 1.10E-02 | A |
| *dc=IC/IB=* | 189.7 |  |  |  |  |

5.7.2 Base Bias

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *RB* ที่คํานวณได้ = | 3.34E+05 |  | วัด *RB* ได้ = | 3.30E+05 |  |
| วัด *VCE* ได้ = | 9.873 | V |  |  |  |

5.7.3 Emitter Feedback Bias

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *RB* ที่คํานวณได้ = | 3.03E+05 |  | วัด *RB* ได้ = | 3.00E+05 |  |
| วัด *VCE* ได้ = | 9.903 | V |  |  |  |

5.7.4 Voltage Divider Bias

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *RB*1 ที่คํานวณได้ = | 2.75E+04 | W | วัด *RB*1 ได้ = | 2.70E+04 | W |
| *RB*2 ที่คํานวณได้ = | 4.33E+03 | W | วัด *RB*2 ได้ = | 4.30E+03 | W |
| วัด *VCE* ได้ = | 9.876 | V |  |  |  |

5.7.5 Collector Feedback Bias

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *RB* ที่คํานวณได้ = | 1.62E+05 | W | วัด *RB* ได้ = | 1.60E+05 | W |
| วัด *VCE* ได้ = | 9.941 | V |  |  |  |

|  |  |  |
| --- | --- | --- |
|  | *DVCE* | |
| Base bias | 0.988 | V |
| Emitter-feedback bias | 0.885 | V |
| Voltage divider bias | 0.297 | V |
| Collector-feedback bias | 0.456 | V |