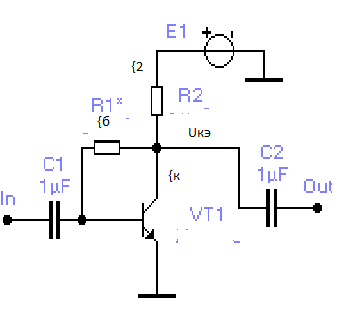
 ,

,

КОНТР-ТРАН-УСИЛ

1

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 12 | 1 | 6 | - | 60 | ? | ? | ? | |  |

|  |  |
| --- | --- |
| 1. Какую логическую функцию выполняет предложенный элемент?  2. Каково напряжение логической единицы на выходе для него?  3. Когда течёт ток через диод и какова его величина? |  |

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2

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| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 12 | 1 | 6 | ? | 60 | ? | ? | ? | |  |

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| --- | --- |
| 1. Какую логическую функцию выполняет предложенный элемент?  2. Каково напряжение логической единицы на выходе для него?  3. Когда течёт ток через диод и какова его величина? |  |

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3

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| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 12 | ? | 6 | - | 60 | ? | ? | 6 | |  |
|  |  |

4

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 12 | ? | 6 | 6 | 60 | ? | ? | ? | |  |
|  |  |

5

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 12 | ? | 6 | - | 30 | ? | ? | 6 | |  |
|  |  |

6

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 12 | 2 | 6 | ? | 60 | ? | ? | ? | |  |
|  |  |

7

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 12 | 2 | 6 | - | 60 | ? | ? | ? | |  |
|  |  |

8

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 6 | 1 | 3 | ? | 30 | ? | ? | ? | |  |
|  |  |

9

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 6 | 1 | 3 | - | ? | 0,1 | ? | ? | |  |
|  |  |

10

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 6 | 1 | 3 | ? | 60 | ? | ? | ? | |  |
|  |  |

11

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 12 | ? | 6 | - | ? | ? | 117 | ? | |  |
|  |  |

12

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 12 | 3 | 6 | ? | 60 | ? | ? | ? | |  |
|  |  |

13

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 12 | 2 | ? | - | 60 | ? | ? | 3 | |  |
|  |  |

14

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 12 | ? | 6 | 6 | 60 | ? | ? | ? | |  |
|  |  |

15

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 12 | ? | 6 | - | ? | 0,1 | ? | 3 | |  |
|  |  |

16

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 12 | ? | 6 | ? | 60 | 0,1 | ? | ? | |  |
|  |  |

17

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 6 | 1 | 3 | - | ? | 0,1 | ? | ? | |  |
|  |  |

18

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 6 | 1 | 3 | ? | 30 | ? | ? | ? | |  |
|  |  |

19

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 12 | 1 | ? | - | 60 | ? | 117 | ? | |  |
|  |  |

20

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 6 | 1 | ? | ? | 60 | 0,1 | ? | 6 | |  |
|  |  |

21

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 12 | 3 | 6 | - | 60 | ? | ? | ? | |  |
|  |  |

22

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Для предложенной схемы рассчитайте недостающие в тиблицг параметры   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | E, В | R2, кОм | Uкэ, В | I2 мА | h | Iб, мА | R1, кОм | Iк, мА | | 12 | 3 | 6 | ? | 60 | ? | ? | ? | |  |
|  |  |