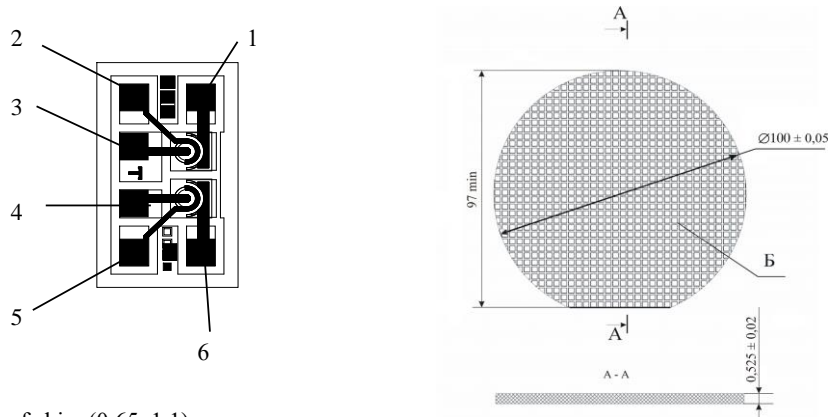


Basic differential amplifier circuit aRD2713BH4



Size of chip: (0,65x1,1)mm

| Pin | Connection | Pin | Connection |
|-----|---------------|-----|---------------|
| 1 | Collector VT1 | 4 | Collector VT2 |
| 2 | Base VT1 | 5 | Base VT2 |
| 3 | Emitter VT1 | 6 | Emitter VT2 |

Electrical Characteristics

| Parametr | Conditions | T_A | Min | Max | Units |
|--|---|--|------|------|-------|
| Collector Reverse Current | $U_{CB} = 20 \text{ V}$ | $+25^\circ\text{C}$ | - | 10 | nA |
| Reverse Emitter Current | $U_{BE} = 4 \text{ V}$ | $+25^\circ\text{C}$ | - | 20 | nA |
| Initial Collector Current | $U_{CE} = 15 \text{ V}, R_B = 10^4 \Omega$ | $+25^\circ\text{C}$ | - | 20 | nA |
| Leakage Current between transistors | $U_{T1T20} = 25 \text{ V}$ | $+25^\circ\text{C}$ | - | 10 | nA |
| Static Forward Current Transfer Ratio in a Common-Emitter Circuit in Large Signal Mode | $U_{CB} = 5 \text{ V}, f = 50 \text{ Hz}, \tau_u = 2 \text{ ms}$ $I_E = 0,05 \text{ mA}$ | $+25^\circ\text{C}$ | 60 | 180 | |
| Ratio of Static Forward Current Transfer Coefficients in Common Emitter Circuit in Large Signal Mode | $U_{CB} = 5 \text{ V}, f = 50 \text{ Hz}, \tau_u = 2 \text{ ms}$ $I_E = 0,05 \text{ mA}$ | $+25^\circ\text{C}$ | 0,9 | | |
| High Frequency Current Transfer Ratio Module | $U_{CB} = 5 \text{ V}, I_E = 3 \text{ mA}, f = 10^8 \text{ Hz}$ | $+25^\circ\text{C}$ | 3,5 | - | |
| Forward voltage difference modulus emitter-base | $U_{CB} = 5 \text{ V}, I_E = 1 \text{ mA}$ | $+25^\circ\text{C}$ | - | 2,5 | mV |
| Absolute change in modulus of emitter-base voltage difference | $U_{CB} = 1 \text{ V}, I_E = 1 \text{ mA}$ | $-45^\circ\text{C} \div +85^\circ\text{C}$ | - | 2 | mV |
| Collector junction capacitance | $U_{CB} = 5 \text{ V}, f = 10^7 \text{ Hz}$ | $+25^\circ\text{C}$ | - | 3 | pF |
| Emitter junction capacitance | $U_{BE} = 1 \text{ V}, f = 10^7 \text{ Hz}$ | $+25^\circ\text{C}$ | - | 4 | pF |
| Forward voltage emitter-base transistors | $U_{CE} = 5 \text{ V}, I_E = 1 \text{ mA}$ | $+25^\circ\text{C}$ | 0,55 | 0,75 | V |

Microcircuits are made under supervision of Quality Department, checked and there correspond specification