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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

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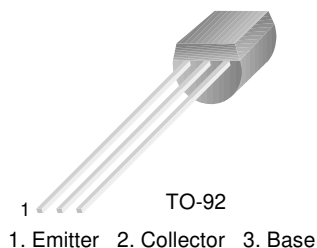
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



FJN4308R

Switching Application (Bias Resistor Built In)

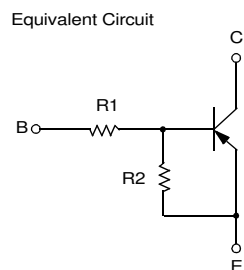
- Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor ($R_1=47K\Omega$, $R_2=22K\Omega$)
- Complement to FJN3308R



PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_a=25^\circ\text{C}$ unless otherwise noted

| Symbol | Parameter | Value | Units |
|-----------|-----------------------------|-----------|------------------|
| V_{CBO} | Collector-Base Voltage | -50 | V |
| V_{CEO} | Collector-Emitter Voltage | -50 | V |
| V_{EBO} | Emitter-Base Voltage | -10 | V |
| I_C | Collector Current | -100 | mA |
| P_C | Collector Power Dissipation | 300 | mW |
| T_J | Junction Temperature | 150 | $^\circ\text{C}$ |
| T_{STG} | Storage Temperature | -55 ~ 150 | $^\circ\text{C}$ |



Electrical Characteristics $T_a=25^\circ\text{C}$ unless otherwise noted

| Symbol | Parameter | Test Condition | Min. | Typ. | Max. | Units |
|---------------|--------------------------------------|---|------|------|------|---------------|
| BV_{CBO} | Collector-Base Breakdown Voltage | $I_C = -10\mu\text{A}$, $I_E = 0$ | -50 | | | V |
| BV_{CEO} | Collector-Emitter Breakdown Voltage | $I_C = -100\mu\text{A}$, $I_B = 0$ | -50 | | | V |
| I_{CBO} | Collector Cut-off Current | $V_{CB} = -40\text{V}$, $I_E = 0$ | | | -0.1 | μA |
| h_{FE} | DC Current Gain | $V_{CE} = -5\text{V}$, $I_C = -5\text{mA}$ | 56 | | | |
| $V_{CE(sat)}$ | Collector-Emitter Saturation Voltage | $I_C = -10\text{mA}$, $I_B = -0.5\text{mA}$ | | | -0.3 | V |
| f_T | Current Gain Bandwidth Product | $V_{CE} = -10\text{V}$, $I_C = -5\text{mA}$ | | 200 | | MHz |
| C_{ob} | Output Capacitance | $V_{CB} = -10\text{V}$, $I_E = 0$ $f = 1.0\text{MHz}$ | | 5.5 | | pF |
| $V_{I(off)}$ | Input Off Voltage | $V_{CE} = -5\text{V}$, $I_C = -100\mu\text{A}$ | -0.8 | | | V |
| $V_{I(on)}$ | Input On Voltage | $V_{CE} = -0.3\text{V}$, $I_C = -2\text{mA}$ | | | -4 | V |
| R_1 | Input Resistor | | 32 | 47 | 62 | $K\Omega$ |
| R_1/R_2 | Resistor Ratio | | 1.9 | 2.1 | 2.4 | |

Typical Characteristics

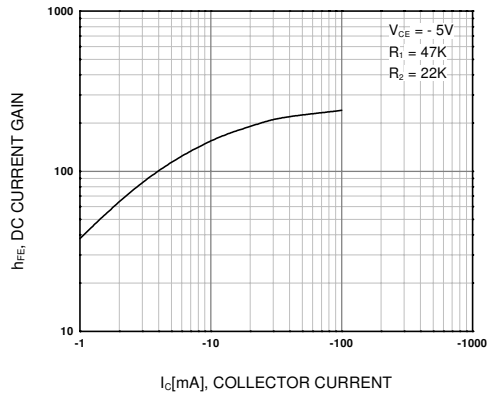


Figure 1. DC current Gain

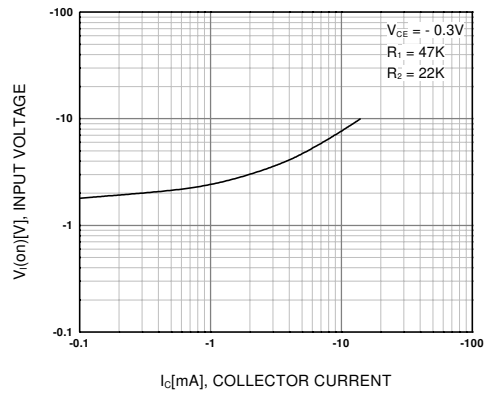


Figure 2. Input On Voltage

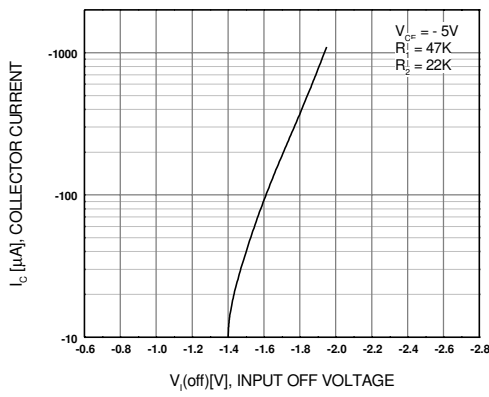


Figure 3. Input Off Voltage

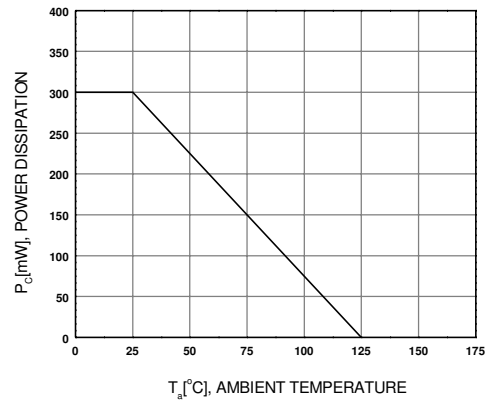
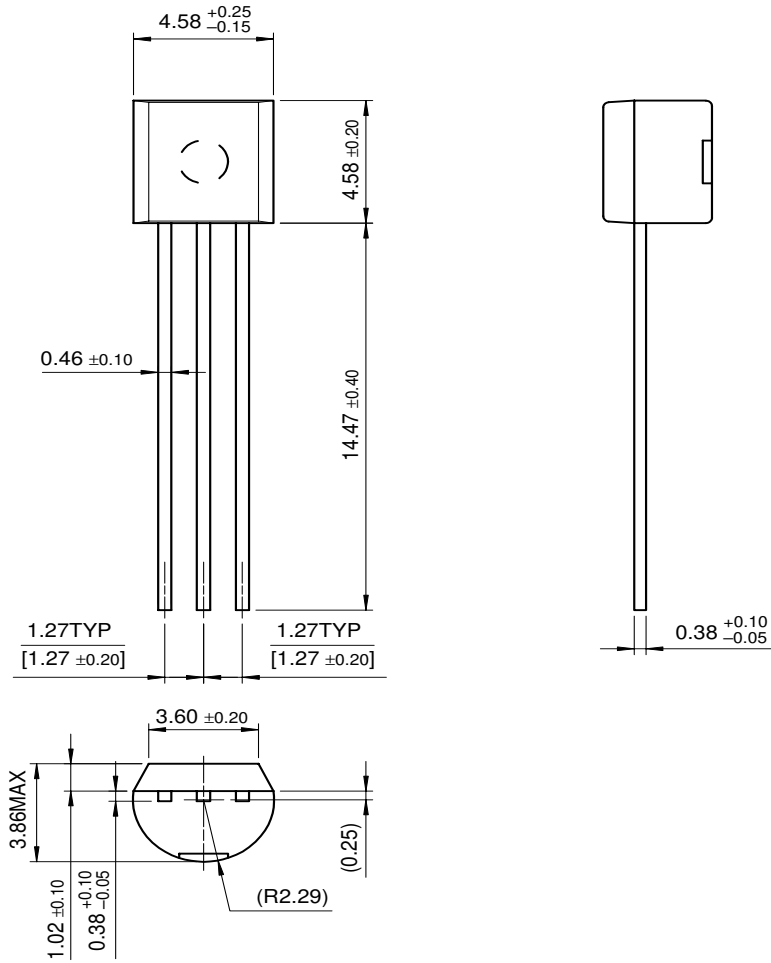


Figure 4. Power Derating

Package Dimensions

FJN4308R

TO-92



Dimensions in Millimeters

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| Bottomless™ | FAST® | LittleFET™ | Power247™ | SuperSOT™-3 |
| CoolFET™ | FAST _r ™ | MicroFET™ | PowerTrench® | SuperSOT™-6 |
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