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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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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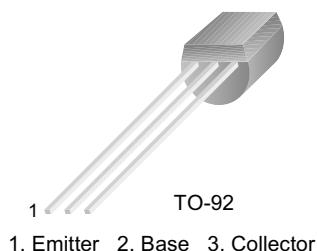
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SS9015

Low Frequency, Low Noise Amplifier

- Complement to SS9014



PNP Epitaxial Silicon Transistor

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

| Symbol | Parameter | Ratings | Units |
|-----------|-----------------------------|-----------|------------------|
| V_{CBO} | Collector-Base Voltage | -50 | V |
| V_{CEO} | Collector-Emitter Voltage | -45 | V |
| V_{EBO} | Emitter-Base Voltage | -5 | V |
| I_C | Collector Current | -100 | mA |
| P_C | Collector Power Dissipation | 450 | 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 | $I_C = -100\mu\text{A}, I_E = 0$ | -50 | | | V |
| BV_{CEO} | Collector-Emitter Breakdown Voltage | $I_C = -1\text{mA}, I_B = 0$ | -45 | | | V |
| BV_{EBO} | Emitter-Base Breakdown Voltage | $I_E = -100\mu\text{A}, I_C = 0$ | -5 | | | V |
| I_{CBO} | Collector Cut-off Current | $V_{CB} = -50\text{V}, I_E = 0$ | | | -50 | nA |
| I_{EBO} | Emitter Cut-off Current | $V_{EB} = -5\text{V}, I_C = 0$ | | | -50 | nA |
| h_{FE} | DC Current Gain | $V_{CE} = -5\text{V}, I_C = -1\text{mA}$ | 60 | | 1000 | |
| $V_{CE}(\text{sat})$ | Collector-Base Saturation Voltage | $I_C = -100\text{mA}, I_B = -5\text{mA}$ | | | -0.7 | |
| $V_{BE}(\text{sat})$ | Base-Emitter Saturation Voltage | $I_C = -100\text{mA}, I_B = -5\text{mA}$ | | | -1.0 | V |
| $V_{BE}(\text{on})$ | Base-Emitter On Voltage | $V_{CE} = -5\text{V}, I_C = -2\text{mA}$ | -0.6 | | -0.75 | V |
| C_{ob} | Output Capacitance | $V_{CB} = -10\text{V}, I_E = 0$ $f=1\text{MHz}$ | | 4.5 | 7.0 | pF |
| f_T | Current Gain Bandwidth Product | $V_{CE} = -5\text{V}, I_C = -10\text{mA}$ | 100 | 190 | | MHz |
| NF | Noise Figure | $V_{CE} = -5\text{V}, I_C = -0.2\text{mA}$ $f=1\text{KHz}, R_S=1\text{K}\Omega$ | | 0.7 | 10 | dB |

h_{FE} Classification

| Classification | A | B | C | D |
|----------------|----------|-----------|-----------|------------|
| h_{FE} | 60 ~ 150 | 100 ~ 300 | 200 ~ 600 | 400 ~ 1000 |

Typical Characteristics

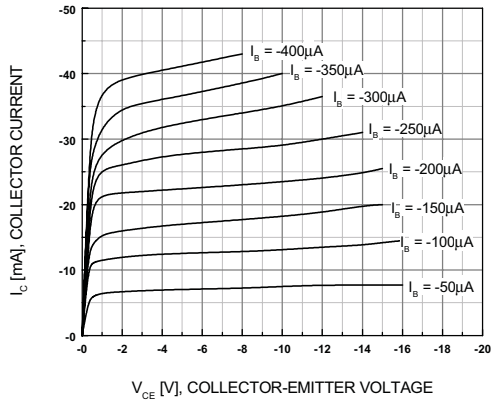


Figure 1. Static Characteristic

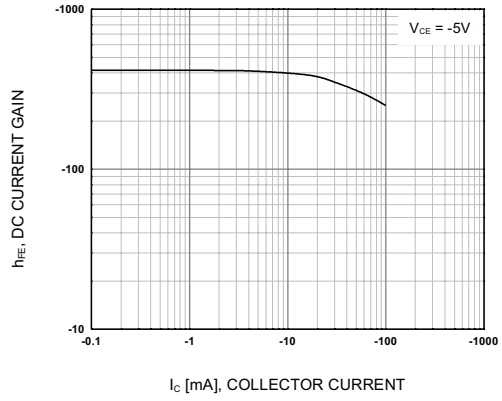


Figure 2. DC current Gain

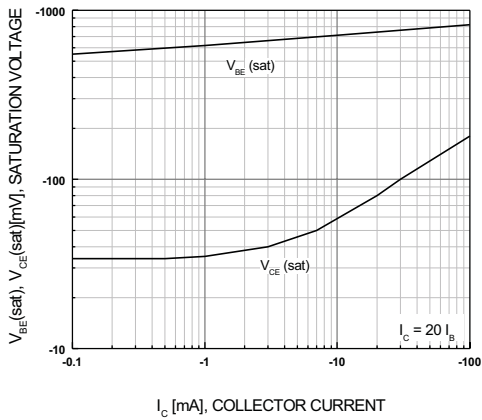


Figure 3. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

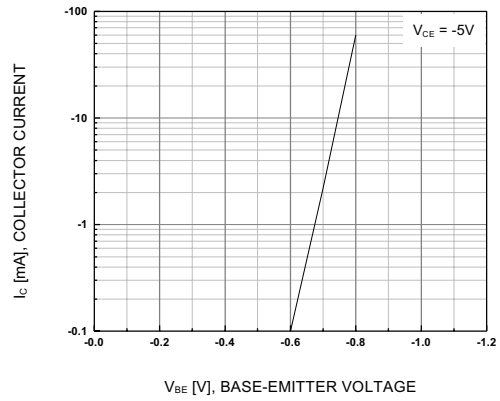


Figure 4. Base-Emitter On Voltage

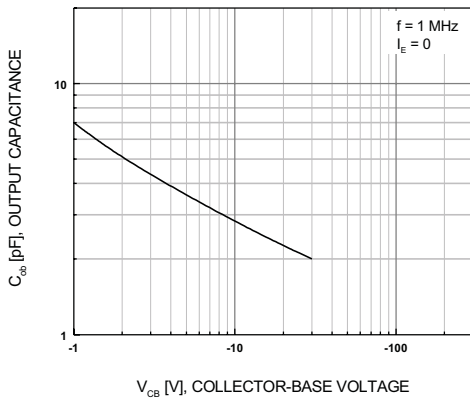


Figure 5. Collector Output Capacitance

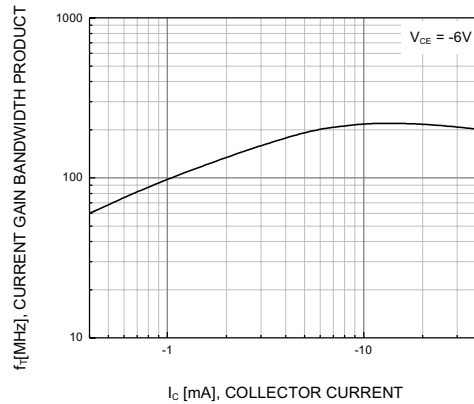
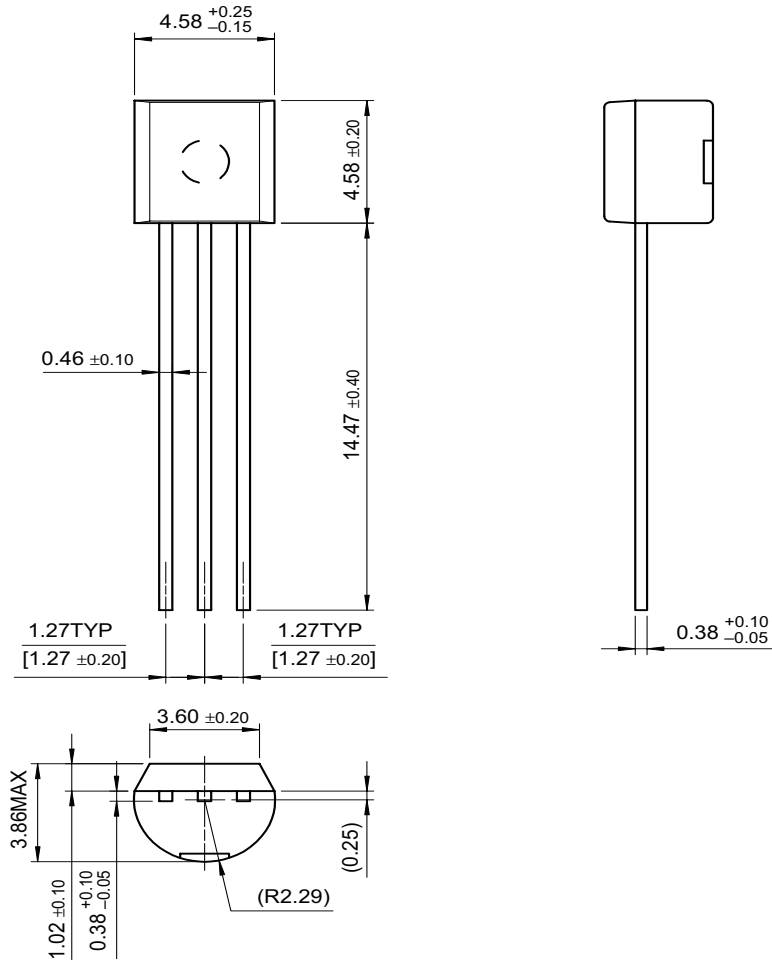


Figure 6. Current Gain Bandwidth Product

Package Dimensions

TO-92



Dimensions in Millimeters

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| Datasheet Identification | Product Status | Definition |
|--------------------------|------------------------|---|
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