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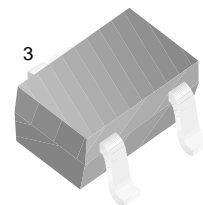
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FJX1182

FJX1182

Low Frequency Power Amplifier



1 SOT-323
1. Base 2. Emitter 3. Collector

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 | -35 | V |
| V_{CEO} | Collector-Emitter Voltage | -30 | V |
| V_{EBO} | Emitter-Base Voltage | -5 | V |
| I_C | Collector Current | -500 | mA |
| P_C | Collector Power Dissipation | 150 | mW |
| T_J | Junction Temperature | 150 | $^\circ\text{C}$ |
| T_{STG} | Storage Temperature | -55 ~ 150 | $^\circ\text{C}$ |

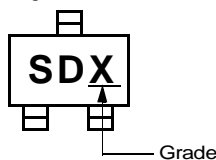
Electrical Characteristics $T_a=25^\circ\text{C}$ unless otherwise noted

| Symbol | Parameter | Test Condition | Min. | Typ. | Max. | Units |
|------------------------|--------------------------------------|--|----------|------|-------|---------------|
| I_{CBO} | Collector Cut-off Current | $V_{CB} = -35, I_E = 0$ | | | -0.1 | μA |
| I_{EBO} | Emitter Cut-off Current | $V_{EB} = -5V, I_C = 0$ | | | -0.1 | μA |
| h_{FE1} h_{FE2} | DC Current Gain | $V_{CE} = -1V, I_C = -100\text{mA}$ $V_{CE} = -6V, I_C = -400\text{mA}$ | 70 25 | | 240 | |
| $V_{CE}(\text{sat})$ | Collector-Emitter Saturation Voltage | $I_C = -100\text{mA}, I_B = -10\text{mA}$ | | -0.1 | -0.25 | V |
| $V_{BE}(\text{on})$ | Base-Emitter On Voltage | $I_C = -100\text{mA}, V_{CE} = -1V$ | | -0.8 | -1.0 | V |
| f_T | Current Gain Bandwidth Product | $I_C = -20\text{mA}, V_{CE} = -6V$ | | 200 | | MHz |
| C_{ob} | Output Capacitance | $V_{CB} = -6V, I_E = 0$ $f = 1\text{MHz}$ | | 13 | | pF |

h_{FE} Classification

| Classification | O | Y |
|----------------|----------|-----------|
| h_{FE1} | 70 ~ 140 | 120 ~ 240 |

Marking



Typical Characteristics

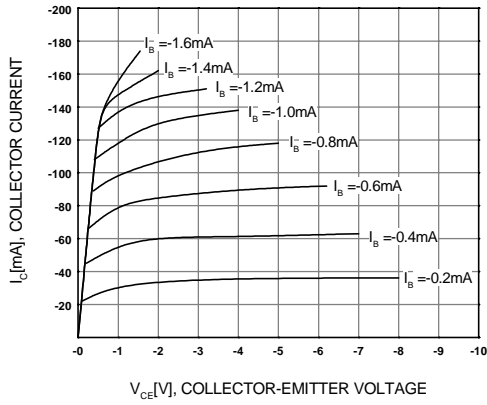


Figure 1. Static Characteristic

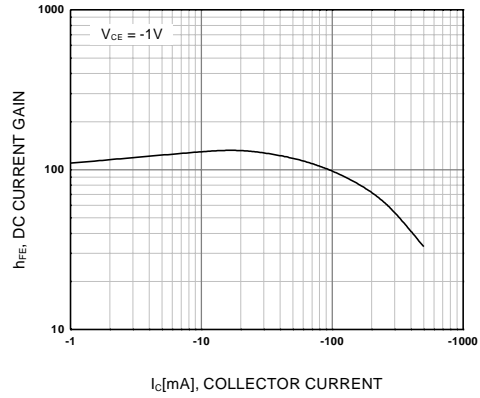
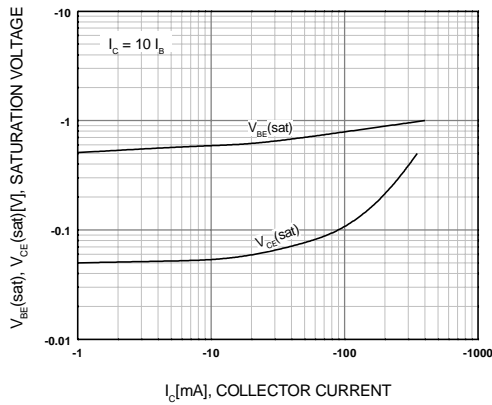


Figure 2. DC current Gain



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

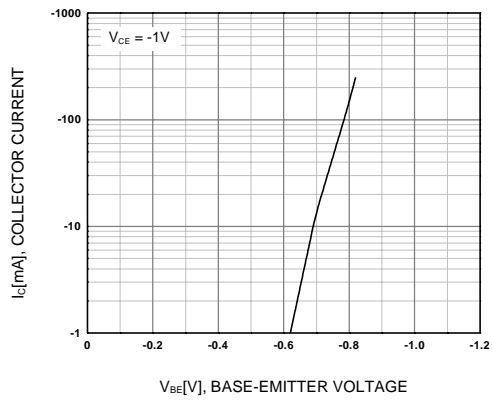


Figure 4. Base-Emitter On Voltage

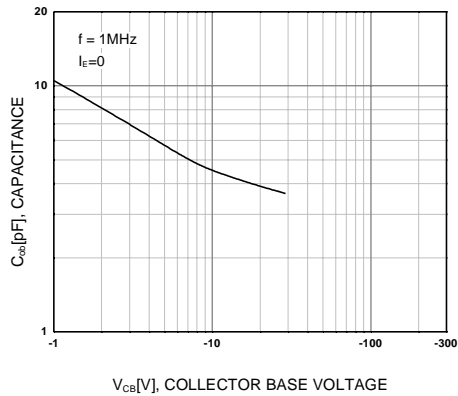
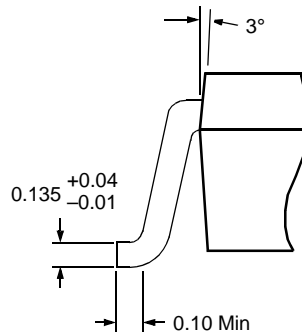
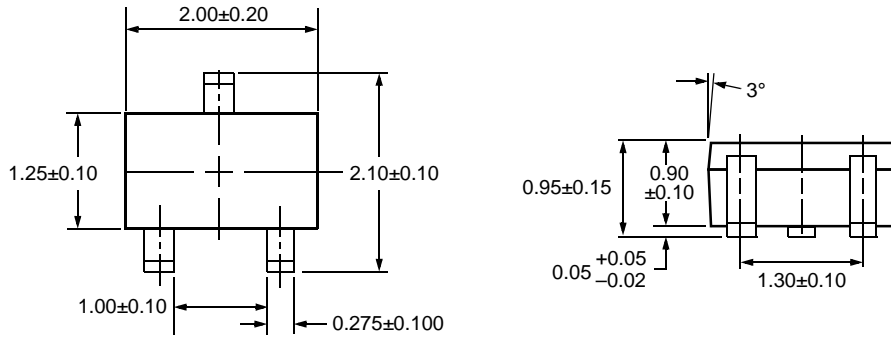


Figure 5. Collector Output Capacitance

Package Dimensions

SOT-323



Dimensions in Millimeters

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