ST 2SC1815
NPN Silicon Epitaxial Planar Transistor
for switching and AF amplifier applications.

The transistor is subdivided into four groups, O, Y, G and L, according to its DC current gain. As complementary type the PNP transistor ST 2SA1015 is recommended.

On special request, these transistors can be


1. Emitter 2. Collector 3. Base TO-92 Plastic Package

Absolute Maximum Ratings ( $\mathrm{T}_{\mathrm{a}}=25^{\circ} \mathrm{C}$ )

| Parameter | Symbol | Value | Unit |
| :--- | :---: | :---: | :---: |
| Collector Base Voltage | $\mathrm{V}_{\text {CBO }}$ | 60 | V |
| Collector Emitter Voltage | $\mathrm{V}_{\text {CEO }}$ | 50 | V |
| Emitter Base Voltage | $\mathrm{V}_{\text {EBO }}$ | 5 | V |
| Collector Current | $\mathrm{I}_{\mathrm{C}}$ | 150 | mA |
| Base Current | $\mathrm{I}_{\mathrm{B}}$ | 50 | mA |
| Power Dissipation | $\mathrm{P}_{\text {tot }}$ | 400 | mW |
| Junction Temperature | $\mathrm{T}_{\mathrm{j}}$ | 150 | ${ }^{\circ} \mathrm{C}$ |
| Storage Temperature Range | $\mathrm{T}_{\text {stg }}$ | -55 to +150 | ${ }^{\circ} \mathrm{C}$ |

Characteristics at $\mathrm{T}_{\mathrm{a}}=25^{\circ} \mathrm{C}$


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Figure 1. Static Characteristic


Figure 3. DC current Gain


Figure 5. Output Capacitance


Figure 2. Transfer Characteristic


Figure 4. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage


Figure 6. Current Gain Bandwidth Product

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