

Descriptions

- General purpose application
- Switching application

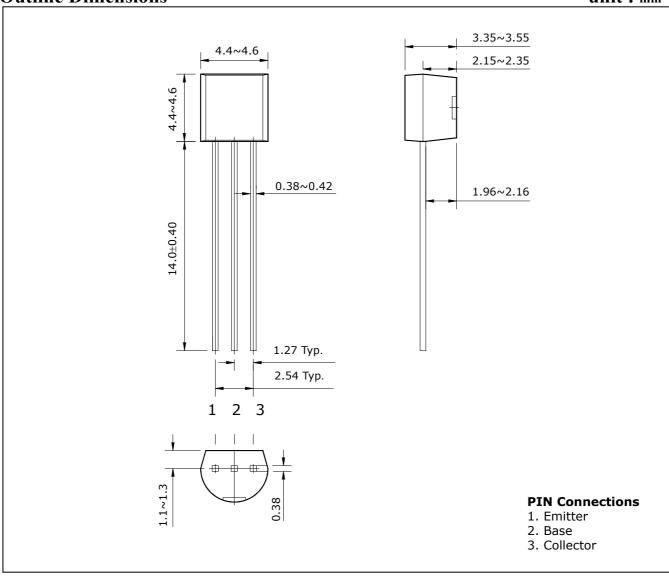
Features

- Large collector current
- Low collector saturation voltage
- Complementary pair with STN2222

Ordering Information

| Type NO. | Marking | Package Code |
|----------|---------|--------------|
| STN2907 | STN2907 | TO-92 |

Outline Dimensions



unit : mm

STN2907

Ta=25°C

Absolute maximum ratings

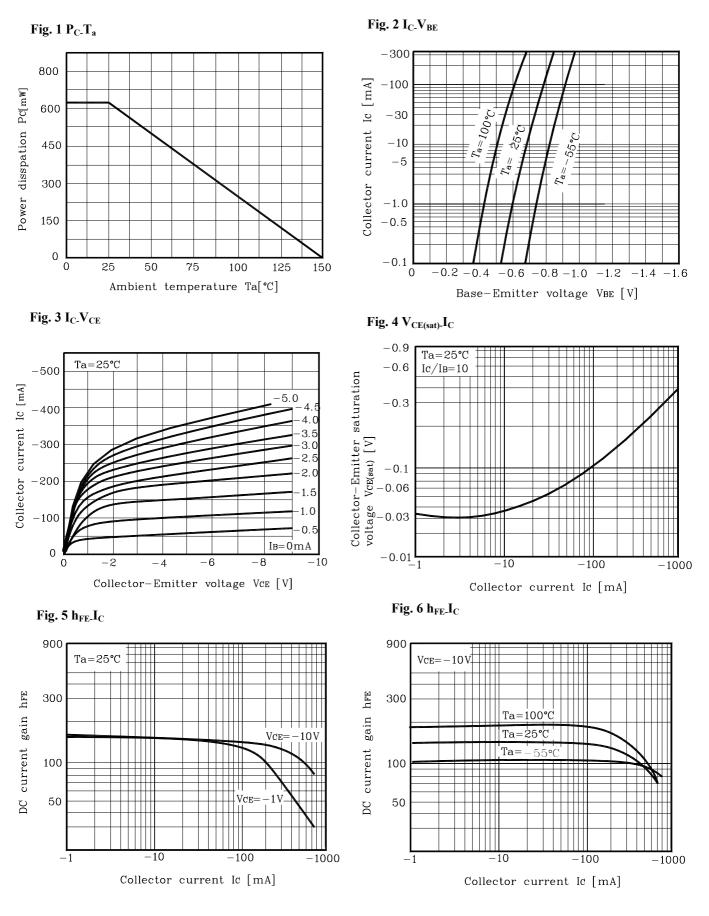
| Characteristic | Symbol | Ratings | Unit |
|---------------------------|------------------|---------|------|
| Collector-Base voltage | V _{CBO} | -60 | V |
| Collector-Emitter voltage | V _{CEO} | -40 | V |
| Emitter-Base voltage | V _{EBO} | -5 | V |
| Collector current | I _C | -600 | mA |
| Collector dissipation | P _C | 625 | mW |
| Junction temperature | Tj | 150 | °C |
| Storage temperature | T _{stg} | -55~150 | °C |

Electrical Characteristics

Ta=25°C Characteristic Symbol **Test Condition** Min. Max. Unit Typ. Collector-Base breakdown voltage -60 ٧ $\mathsf{BV}_{\mathsf{CBO}}$ I_{C} =-10 μ A, I_{E} =0 _ _ $\mathsf{BV}_{\mathsf{CEO}}$ $I_C = -1mA$, $I_B = 0$ Collector-Emitter breakdown voltage -40 _ V _ Emitter-Base breakdown voltage -5 V $\mathsf{BV}_{\mathsf{EBO}}$ I_{E} =-10 μ A, I_{C} =0 --Collector cut-off current V_{CB} =-50V, I_{E} =0 $\mathbf{I}_{\mathsf{CBO}}$ -_ -10 nA 75 _ -DC current gain V_{CE} =-10V, I_C =-10mA h_{FE} Collector-Emitter saturation voltage $V_{CE(sat)}$ I_C =-150mA, I_B =-15mA -0.4 V --Transistor frequency f_{T} V_{CE}=-20V, I_C=-50mA 250 _ _ MHz V_{CB} =-10V, I_E =0, f=1MHz _ 6.0 _ Collector output capacitance C_{ob} pF

STN2907

Electrical Characteristic Curves



STN2907

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