Panasonic

2SA1858

Silicon PNP epitaxial planer type

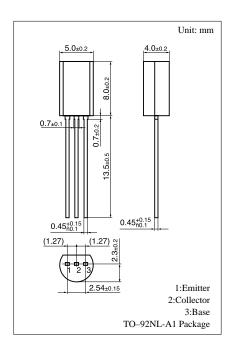
For general amplification

Features

ullet High collector to emitter voltage V_{CEO} .

Absolute Maximum Ratings (Ta=25°C)

| Parameter | Symbol | Ratings | Unit |
|------------------------------|----------------|-------------------|------|
| Collector to base voltage | V_{CBO} | -300 | V |
| Collector to emitter voltage | V_{CEO} | -300 | V |
| Emitter to base voltage | $V_{\rm EBO}$ | -5 | V |
| Peak collector current | I_{CP} | -100 | mA |
| Collector current | I_{C} | -70 | mA |
| Collector power dissipation | P_{C} | 1 | W |
| Junction temperature | T _j | 150 | °C |
| Storage temperature | T_{stg} | −55 ~ +150 | °C |



Electrical Characteristics (Ta=25°C)

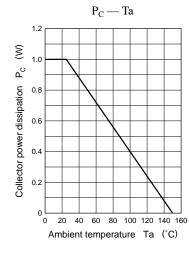
| Parameter | Symbol | Conditions | min | typ | max | Unit |
|---|----------------------|---|------|-----|-------|------|
| Collector to emitter voltage | V _{CEO} | $I_{\rm C} = -100 \mu A, I_{\rm B} = 0$ | -300 | | | V |
| Emitter to base voltage | V _{EBO} | $I_{\rm E} = -1 \mu A, I_{\rm C} = 0$ | -5 | | | V |
| Forward current transfer ratio | h _{FE} * | $V_{CE} = -10V, I_{C} = -5mA$ | 30 | | 150 | |
| Collector to emitter saturation voltage | V _{CE(sat)} | $I_{\rm C} = -10 \text{mA}, I_{\rm B} = -1 \text{mA}$ | | | - 0.6 | V |
| Transition frequency | f_T | $V_{CB} = -10V$, $I_E = 10mA$, $f = 200MHz$ | 50 | | | MHz |
| Collector output capacitance | C _{ob} | $V_{CB} = -10V, I_E = 0, f = 1MHz$ | | 7 | | pF |

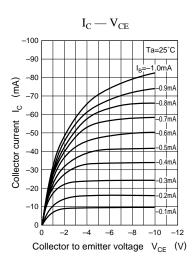
*hFE Rank classification

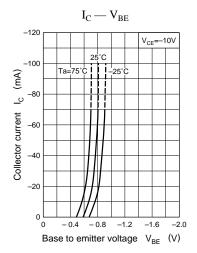
| Rank | P | Q | | |
|----------|----------|----------|--|--|
| h_{FE} | 30 ~ 100 | 60 ~ 150 | | |

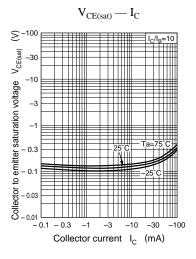
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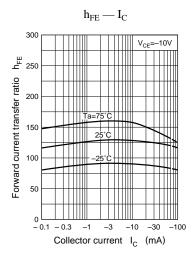
Transistor 2SA1858

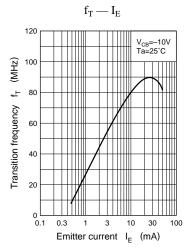


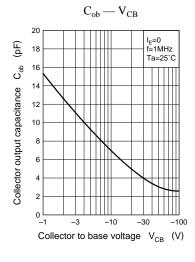


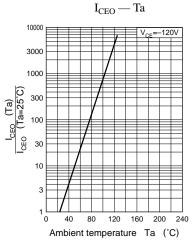












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