

|              |          |  |
|--------------|----------|--|
| <b>SANYO</b> | No.1079A | 2SB887/2SD1197   |
|              |          | PNP/NPN Planar Type<br>Silicon Darlington Transistors<br>DRIVER APPLICATIONS |

**Applications**

- . Motor drivers, printer hammer drivers, relay drivers, voltage regulator control

**Features**

- . High DC current gain
- . Large current capacity and wide ASO
- . Low saturation voltage

( ): 2SB887

**Absolute Maximum Ratings at Ta=25°**

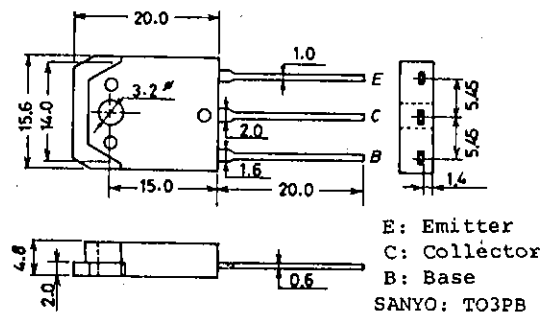
|                              |                  |             | unit |
|------------------------------|------------------|-------------|------|
| Collector-to-Base Voltage    | V <sub>CB0</sub> | (-)110      | V    |
| Collector-to-Emitter Voltage | V <sub>CEO</sub> | (-)100      | V    |
| Emitter-to-Base Voltage      | V <sub>EBO</sub> | (-)6        | V    |
| Collector Current            | I <sub>C</sub>   | (-)10       | A    |
| Peak Collector Current       | i <sub>cp</sub>  | (-)15       | A    |
| Collector Dissipation        | P <sub>C</sub>   | 70          | W    |
| Junction Temperature         | T <sub>J</sub>   | 150         | °C   |
| Storage Temperature          | T <sub>stg</sub> | -55 to +150 | °C   |

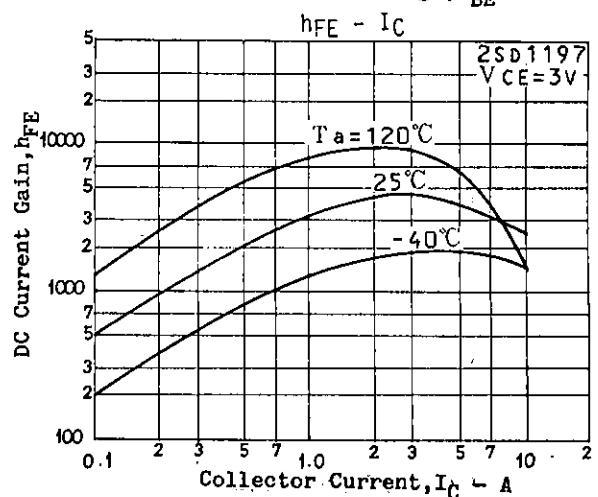
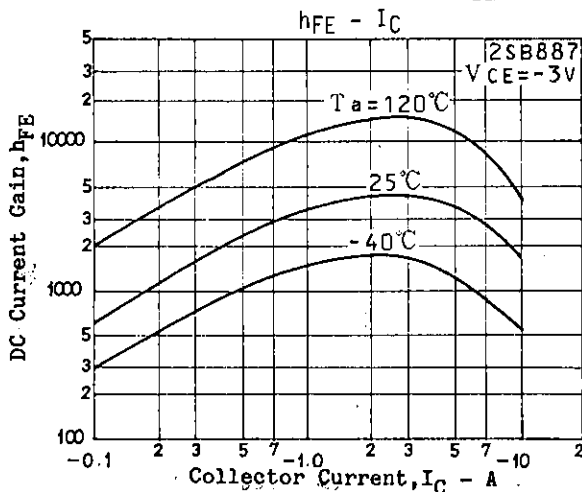
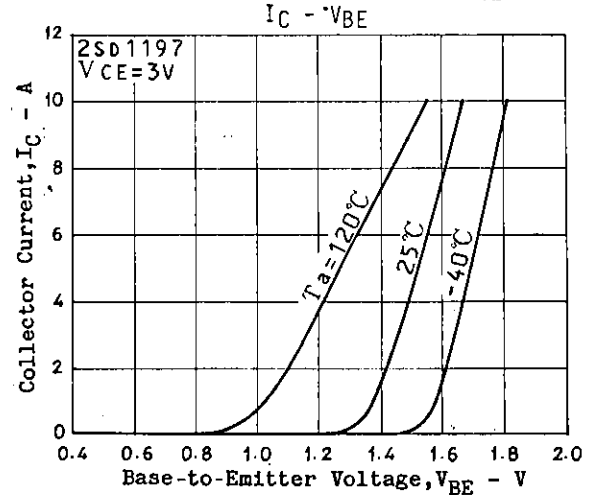
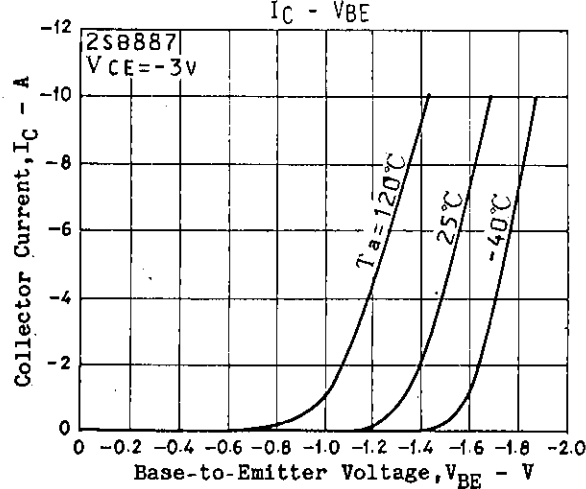
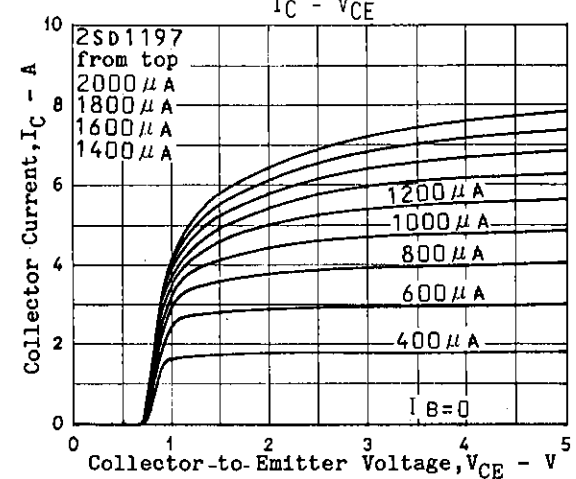
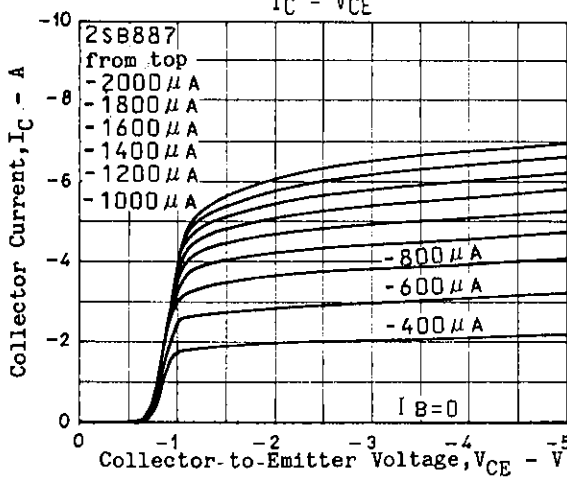
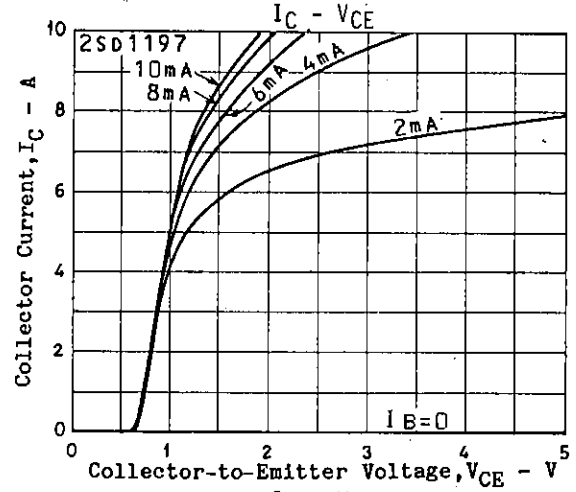
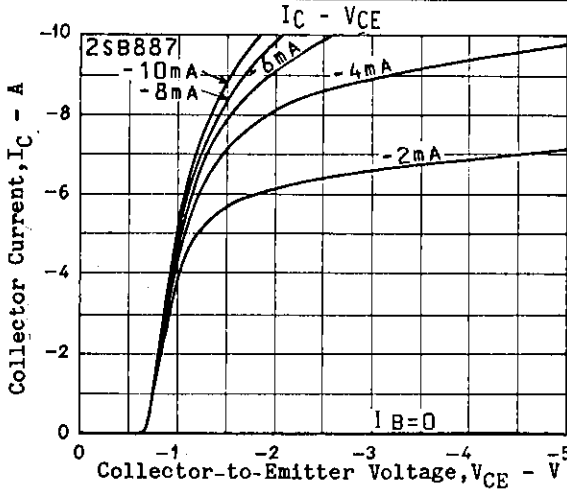
**Electrical Characteristics at Ta=25°**

|                          |                      |  | min    | typ    | max    | unit |
|--------------------------|----------------------|--|--------|--------|--------|------|
| Collector Cutoff Current | I <sub>CB0</sub>     | V <sub>CB</sub> =(-)80V, I <sub>E</sub> =0     |        |        | (-)0.1 | mA   |
| Emitter Cutoff Current   | I <sub>EBO</sub>     | V <sub>EB</sub> =(-)5V, I <sub>C</sub> =0      |        |        | (-)3.0 | mA   |
| DC Current Gain          | h <sub>FE</sub>      | V <sub>CE</sub> =(-)3V, I <sub>C</sub> =(-)5A  | 1500   | 4000   |        |      |
| Gain-Bandwidth Product   | f <sub>T</sub>       | V <sub>CE</sub> =(-)5V, I <sub>C</sub> =(-)5A  |        | 20     |        | MHz  |
| C-E Saturation Voltage   | V <sub>CE(sat)</sub> | I <sub>C</sub> =(-)5A, I <sub>B</sub> =(-)10mA | (-1.0) | (-)1.5 |        | V    |
| B-E Saturation Voltage   | V <sub>BE(sat)</sub> | I <sub>C</sub> =(-)5A, I <sub>B</sub> =(-)10mA | 0.9    |        | (-)2.0 | V    |
| C-B Breakdown Voltage    | V <sub>(BR)CBO</sub> | I <sub>C</sub> =(-)5mA, I <sub>E</sub> =0      | (-)110 |        |        | V    |
| C-E Breakdown Voltage    | V <sub>(BR)CEO</sub> | I <sub>C</sub> =(-)50mA, R <sub>BE</sub> =∞    | (-)100 |        |        | V    |

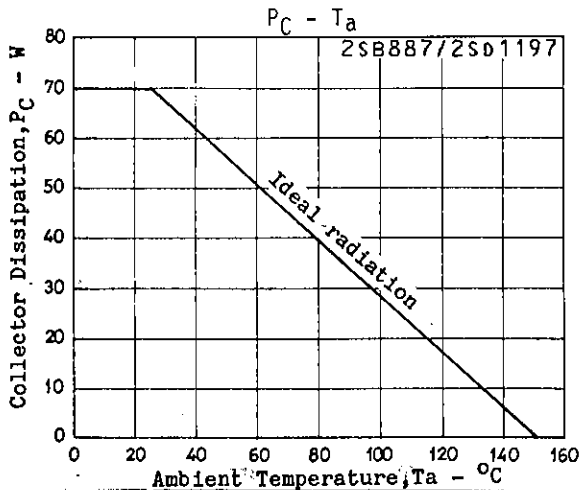
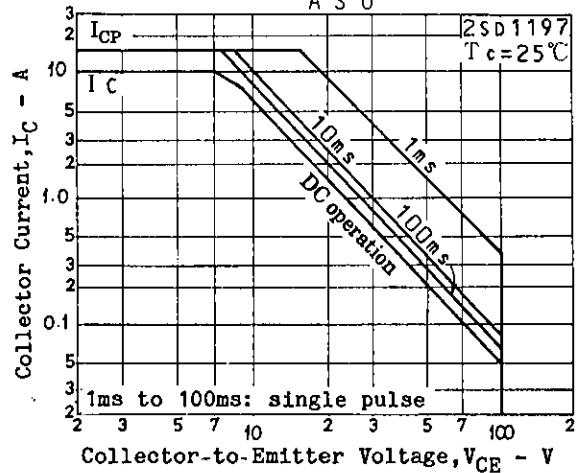
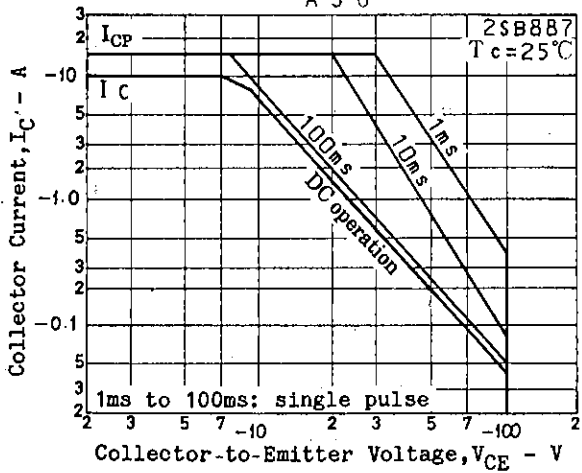
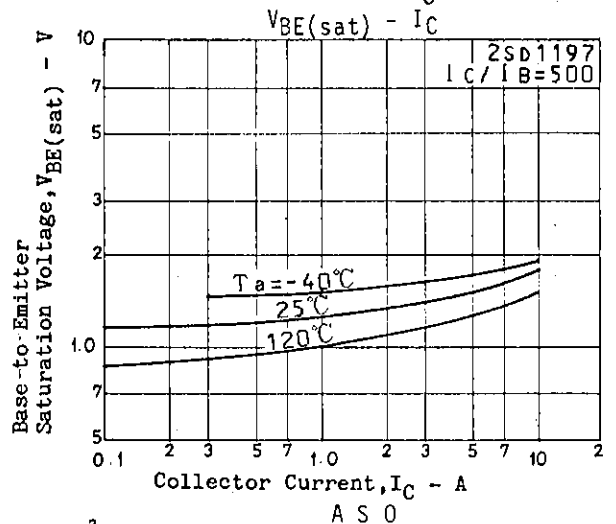
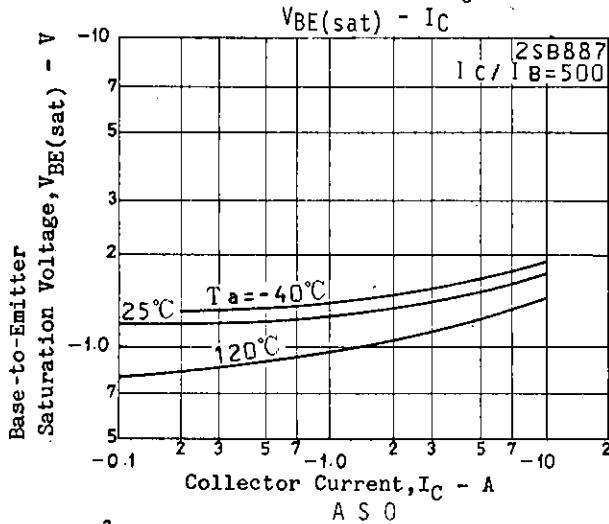
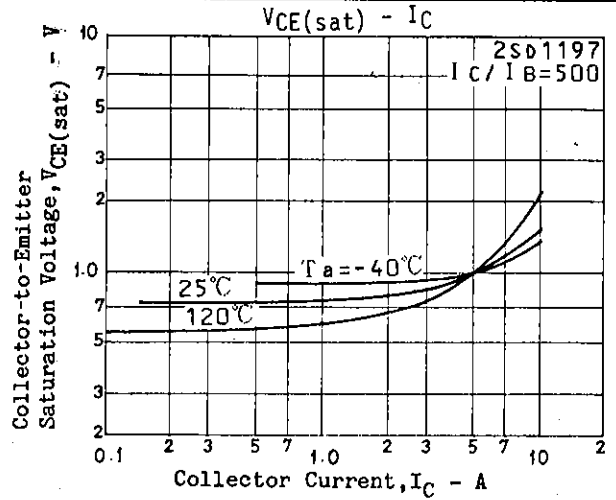
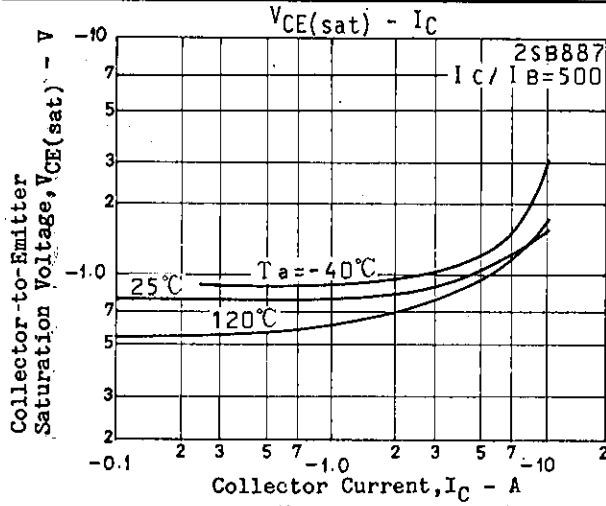
**Package Dimensions 2022**

(unit:mm)





2SB887/2SD1197



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