

查询"2SC4631"供应商

|              |          |                                                                                                           |
|--------------|----------|-----------------------------------------------------------------------------------------------------------|
| <b>SANYO</b> | No.3700A | <b>2SC4631</b>                                                                                            |
|              |          | NPN Triple Diffused Planar Silicon Transistor<br>High-Voltage Amp,<br>High-Voltage Switching Applications |

**Features**

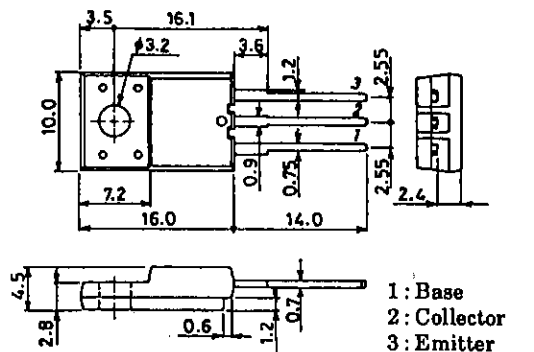
- High breakdown voltage ( $V_{CEO}$  min=900V).
- Small Cob (typical Cob=5.0pF).
- Full-isolation package.
- High reliability (Adoption of HVP process).

**Absolute Maximum Ratings at  $T_a = 25^\circ\text{C}$** 

|                              |           |             | unit             |
|------------------------------|-----------|-------------|------------------|
| Collector-to-Base Voltage    | $V_{CBO}$ | 1500        | V                |
| Collector-to-Emitter Voltage | $V_{CEO}$ | 900         | V                |
| Emitter-to-Base Voltage      | $V_{EBO}$ | 5           | V                |
| Collector Current            | $I_C$     | 300         | mA               |
| Collector Current (Pulse)    | $I_{CP}$  | 1           | A                |
| Collector Dissipation        | $P_C$     | 2           | W                |
| Junction Temperature         | $T_j$     | 150         | $^\circ\text{C}$ |
| Storage Temperature          | $T_{stg}$ | -55 to +150 | $^\circ\text{C}$ |

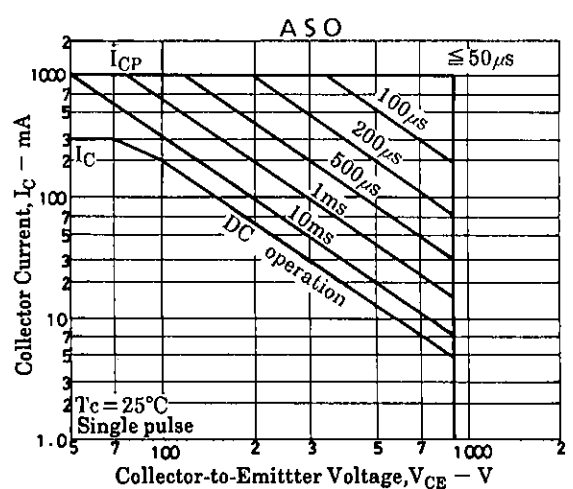
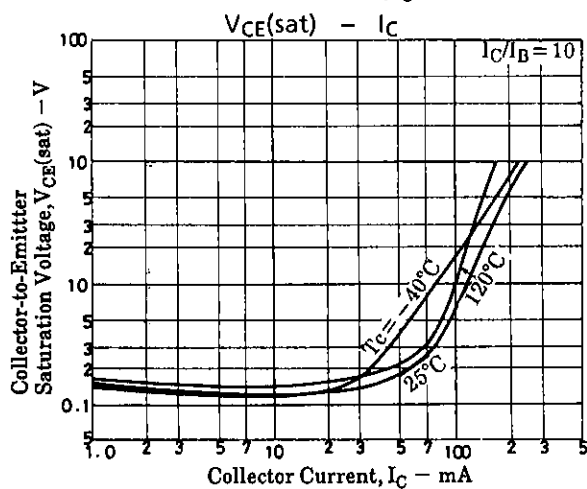
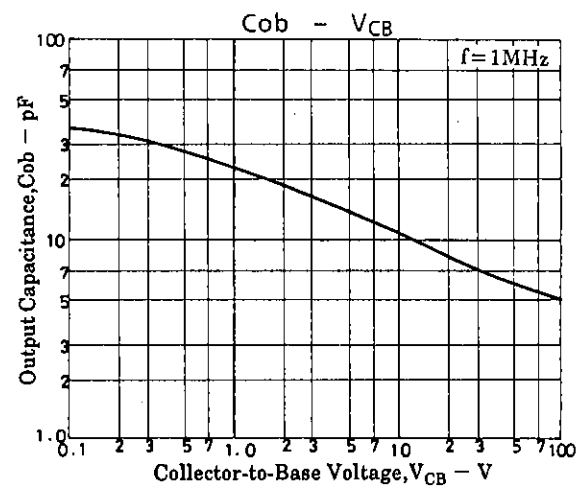
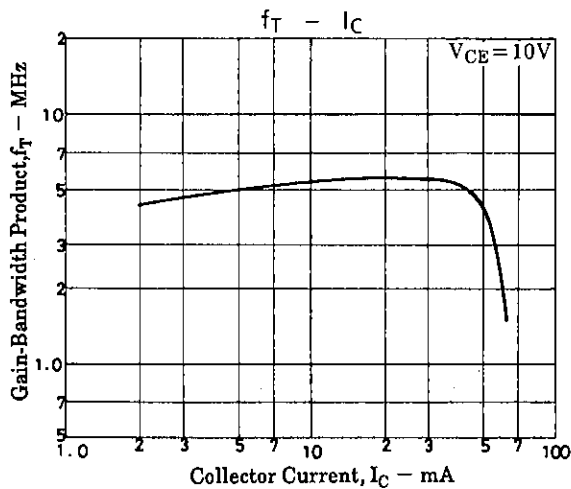
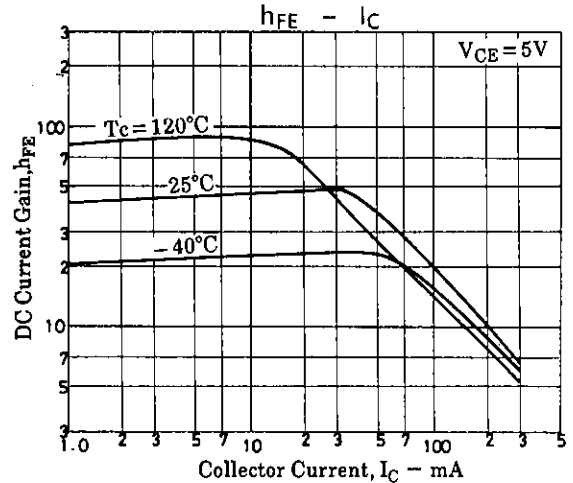
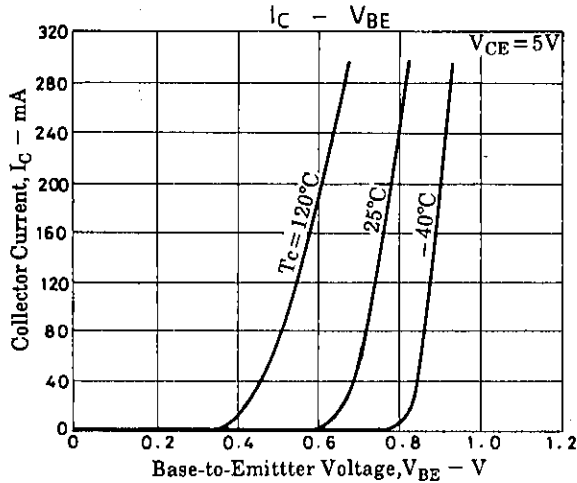
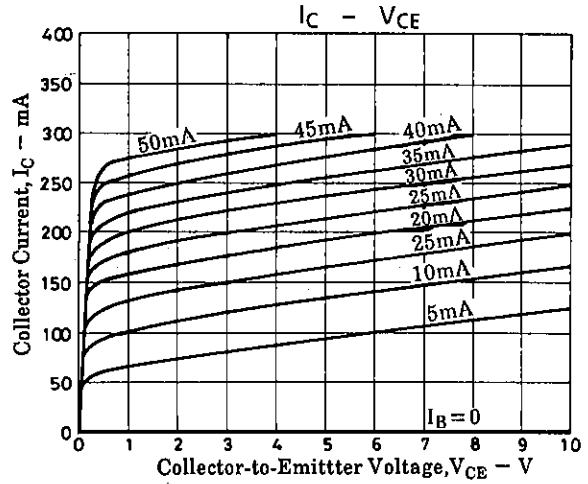
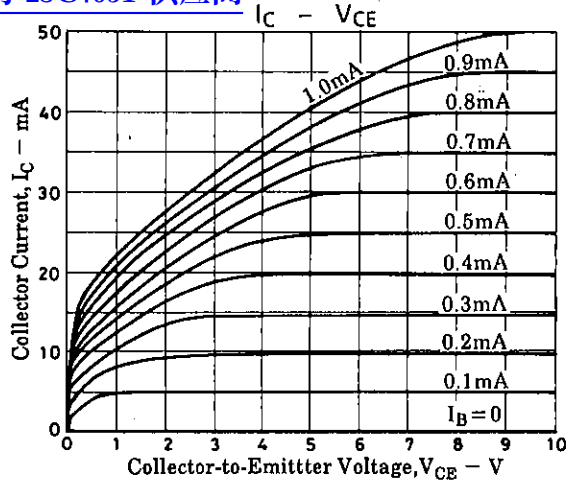
**Electrical Characteristics at  $T_a = 25^\circ\text{C}$** 

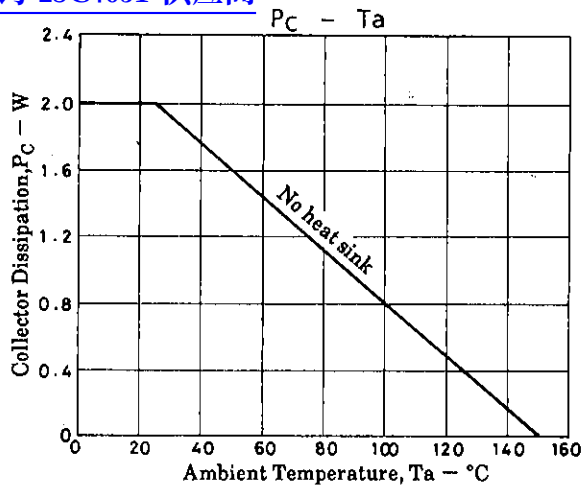
|                          |               |                                      | min  | typ | max  | unit               |
|--------------------------|---------------|--------------------------------------|------|-----|------|--------------------|
| Collector Cutoff Current | $I_{CBO}$     | $V_{CB}=900\text{V}, I_E=0$          |      |     | 10   | $\mu\text{A}$      |
| Emitter Cutoff Current   | $I_{EBO}$     | $V_{EB}=4\text{V}, I_C=0$            |      |     | 10   | $\mu\text{A}$      |
| DC Current Gain          | $h_{FE}$      | $V_{CE}=5\text{V}, I_C=30\text{mA}$  | 30   |     |      |                    |
| Gain-Bandwidth Product   | $f_T$         | $V_{CE}=10\text{V}, I_C=30\text{mA}$ |      | 6   |      | MHz                |
| C-E Saturation Voltage   | $V_{CE(sat)}$ | $I_C=60\text{mA}, I_B=12\text{mA}$   |      |     | 5    | V                  |
| B-E Saturation Voltage   | $V_{BE(sat)}$ | $I_C=60\text{mA}, I_B=12\text{mA}$   |      |     | 2    | V                  |
| C-B Breakdown Voltage    | $V_{(BR)CBO}$ | $I_C=1\text{mA}, I_E=0$              | 1500 |     |      | V                  |
| C-E Breakdown Voltage    | $V_{(BR)CEO}$ | $I_C=1\text{mA}, R_{BE}=\infty$      | 900  |     |      | V                  |
| E-B Breakdown Voltage    | $V_{(BR)EBO}$ | $I_E=1\text{mA}, I_C=0$              | 5    |     |      | V                  |
| Output Capacitance       | Cob           | $V_{CB}=100\text{V}, f=1\text{MHz}$  |      | 5.0 |      | pF                 |
| Thermal Resistance       | $R_{thj-c}$   | Junction - case                      |      |     | 6.25 | $^\circ\text{C/W}$ |

**Package Dimensions 2079B**  
(unit : mm)

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