

SANYO

No.4136

2SC4884

NPN Epitaxial Planar Silicon Transistor
 High Definition CRT
 Display Video Output Applications

Applications

- High Definition CRT Display.
- Especially suited for use in Color TV Chrome Output and High Breakdown Voltage Driver Applications.

Features

- Adoption of MBIT process.
- Large allowable collector dissipation.
- High breakdown voltage ($V_{CEO} \geq 300V$).
- Excellent high frequency characteristic ($C_{re} = 1.8pF$ typ).
- Usage of radial taping to meet automatic mounting.

Absolute Maximum Ratings at $T_a = 25^\circ C$

| | | | unit |
|------------------------------|-----------|-------------|------------|
| Collector-to-Base Voltage | V_{CBO} | 300 | V |
| Collector-to-Emitter Voltage | V_{CEO} | 300 | V |
| Emitter-to-Base Voltage | V_{EBO} | 5 | V |
| Collector Current | I_C | 100 | mA |
| Peak Collector Current | i_{cp} | 200 | mA |
| Collector Dissipation | P_C | 1.5 | W |
| Junction Temperature | T_j | 150 | $^\circ C$ |
| Storage Temperature | T_{stg} | -55 to +150 | $^\circ C$ |

Electrical Characteristics at $T_a = 25^\circ C$

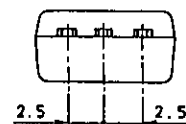
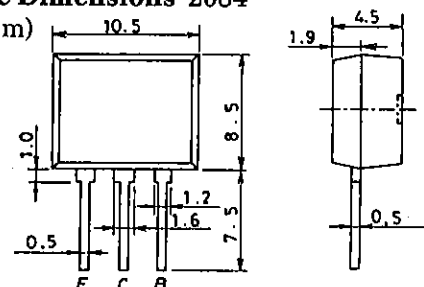
| | | | min | typ | max | unit |
|------------------------------|---------------|------------------------------|-----|-----|------|---------|
| Collector Cutoff Current | I_{CBO} | $V_{CB} = 200V, I_E = 0$ | | | 0.1 | μA |
| Emitter Cutoff Current | I_{EBO} | $V_{EB} = 4V, I_C = 0$ | | | 0.1 | μA |
| DC Current Gain | h_{FE} | $V_{CE} = 10V, I_C = 10mA$ | 60* | | 320* | |
| Gain Bandwidth Product | f_T | $V_{CE} = 30V, I_C = 10mA$ | | 70 | | MHz |
| Output Capacitance | C_{ob} | $V_{CB} = 30V, f = 1MHz$ | | 2.6 | | pF |
| Reverse Transfer Capacitance | C_{re} | $V_{CB} = 30V, f = 1MHz$ | | 1.8 | | pF |
| C-E Saturation Voltage | $V_{CE(sat)}$ | $I_C = 20mA, I_B = 2mA$ | | | 0.6 | V |
| B-E Saturation Voltage | $V_{BE(sat)}$ | $I_C = 20mA, I_B = 2mA$ | | | 1.0 | V |
| C-B Breakdown Voltage | $V_{(BR)CBO}$ | $I_C = 10\mu A, I_E = 0$ | 300 | | | V |
| C-E Breakdown Voltage | $V_{(BR)CEO}$ | $I_C = 1mA, R_{BE} = \infty$ | 300 | | | V |
| E-B Breakdown Voltage | $V_{(BR)EBO}$ | $I_E = 10\mu A, I_C = 0$ | 5 | | | V |

* : The 2SC4884 is classified by 10mA h_{FE} as follows :

| | | | | | | | | |
|----|---|-----|-----|---|-----|-----|---|-----|
| 60 | D | 120 | 100 | E | 200 | 160 | F | 320 |
|----|---|-----|-----|---|-----|-----|---|-----|

Package Dimensions 2084

(unit : mm)



E : Emitter
 C : Collector
 B : Base

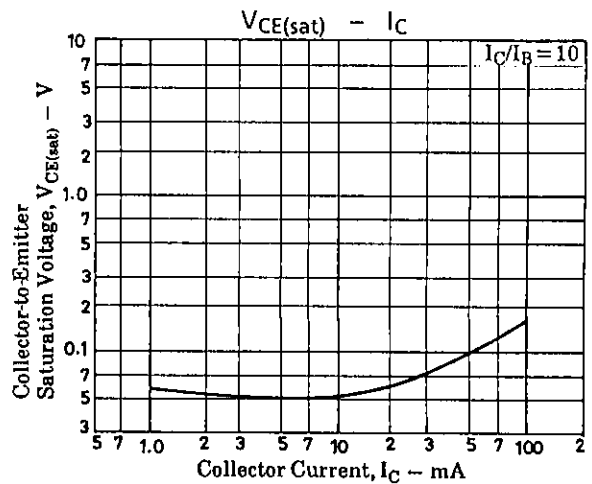
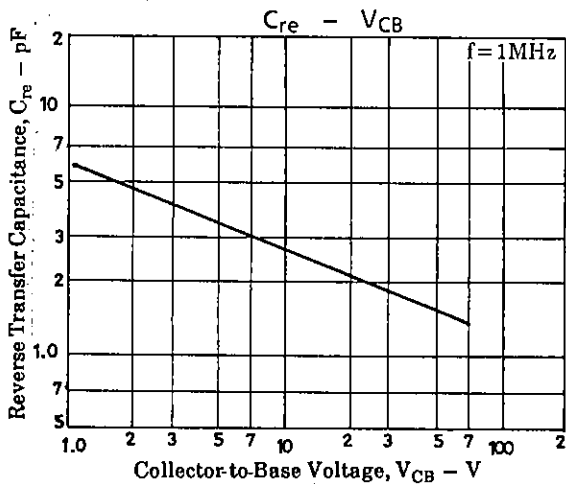
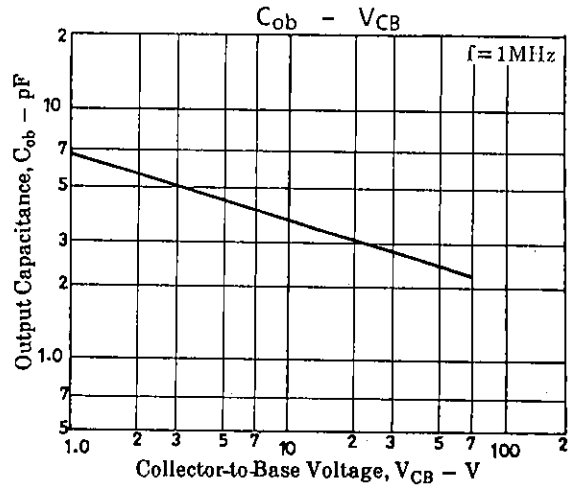
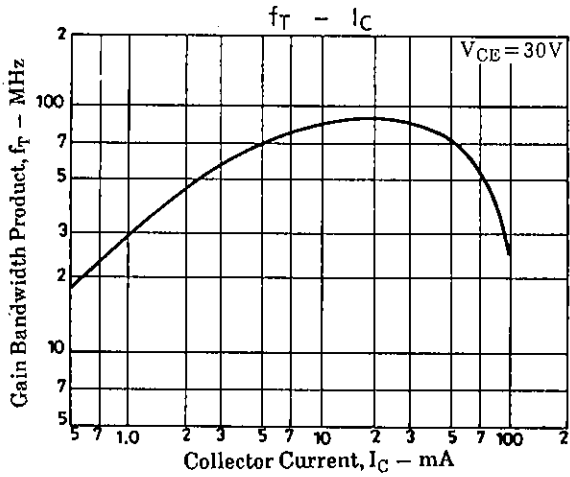
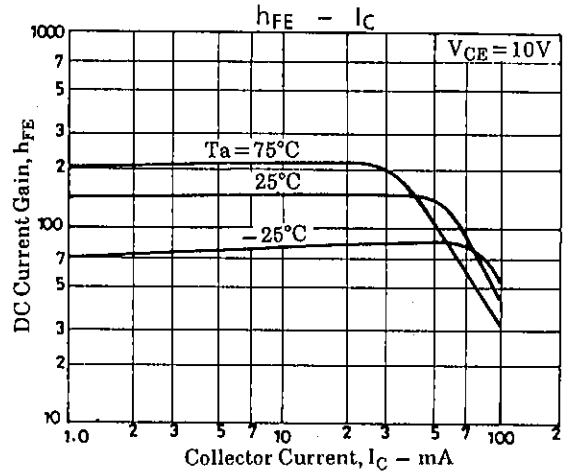
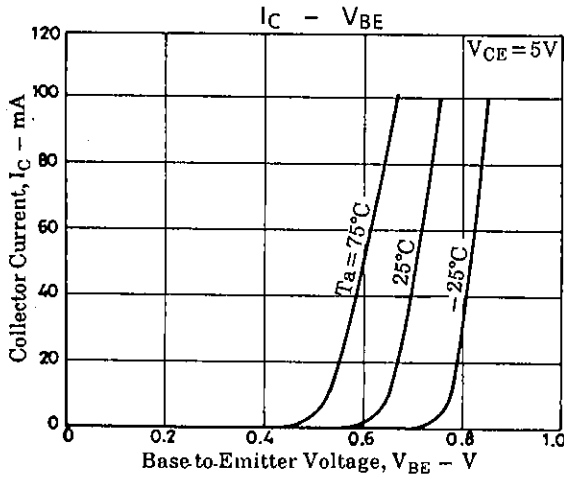
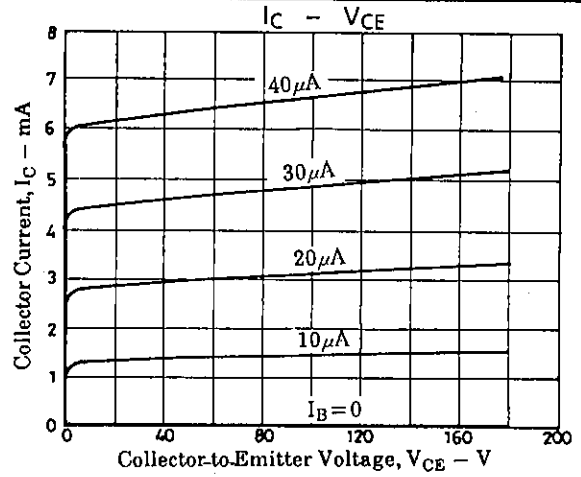
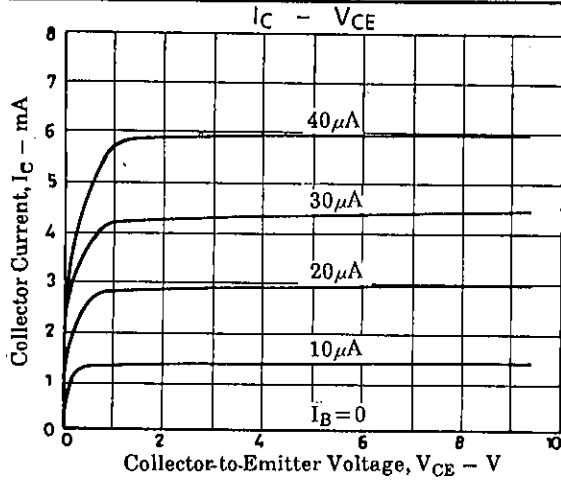
SANYO: FLP

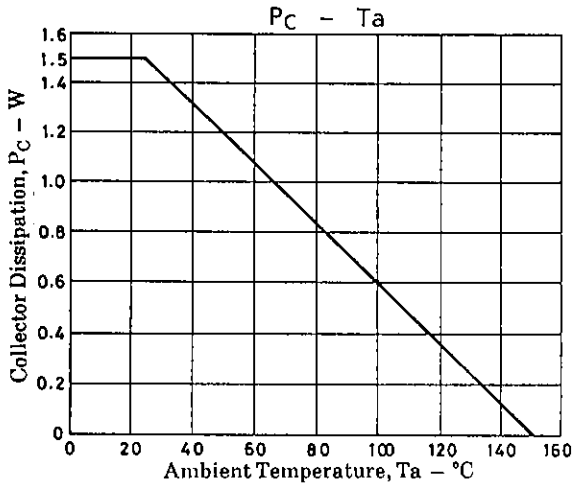
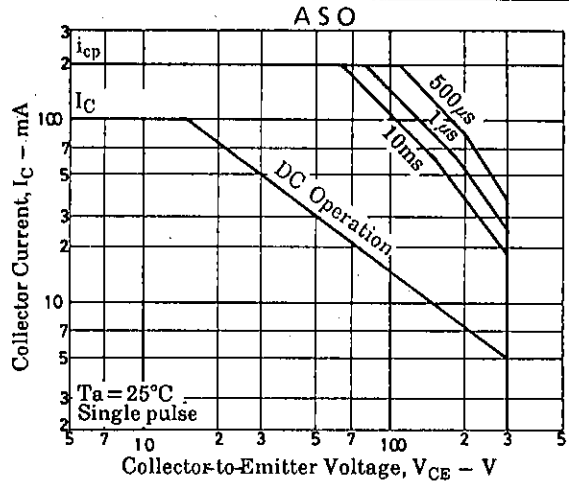
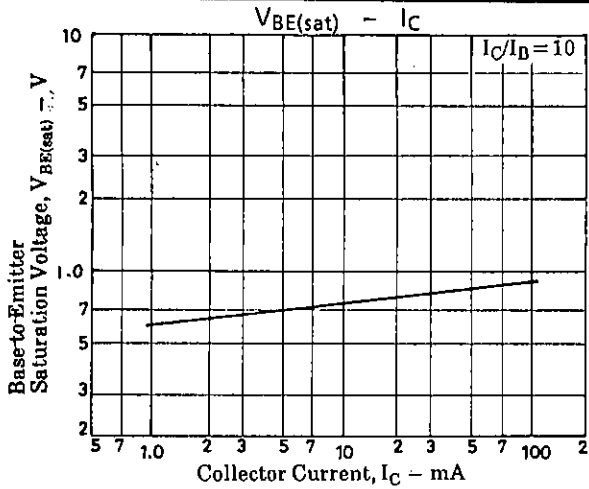
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