



2SA1370/2SC3467

High-Definition CRT Display, Video Output Applications

Use

- Color TV chroma output and high breakdown voltage driver.

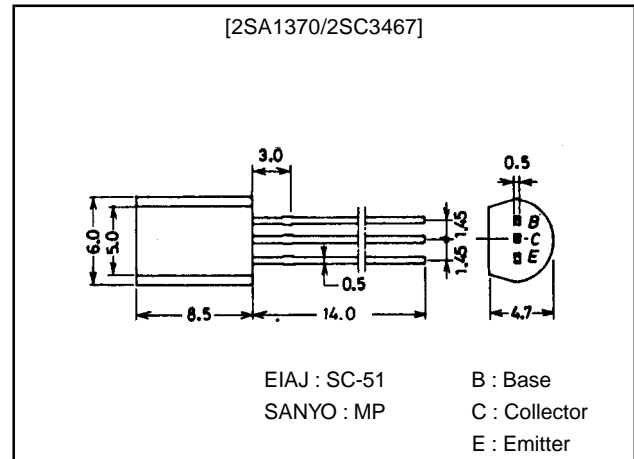
Features

- High breakdown voltage : $V_{CEO} \geq 200V$.
- Small reverse transfer capacitance and excellent high frequency characteristic
: $C_{re} = 1.2pF$ (NPN), $1.7pF$ (PNP).
- Adoption of FBET process.

Package Dimensions

unit:mm

2006A



() : 2SA1370

Specifications

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

| Parameter | Symbol | Conditions | Ratings | Unit |
|------------------------------|-----------|------------|-------------|------------|
| Collector-to-Base Voltage | V_{CBO} | | (-)200 | V |
| Collector-to-Emitter Voltage | V_{CEO} | | (-)200 | V |
| Emitter-to-Base Voltage | V_{EBO} | | (-)5 | V |
| Collector Current | I_C | | (-)100 | mA |
| Collector Current (Pulse) | I_{CP} | | (-)200 | mA |
| Collector Dissipation | P_C | | 1.0 | W |
| Junction Temperature | T_j | | 150 | $^\circ C$ |
| Storage Temperature | T_{stg} | | -55 to +150 | $^\circ C$ |

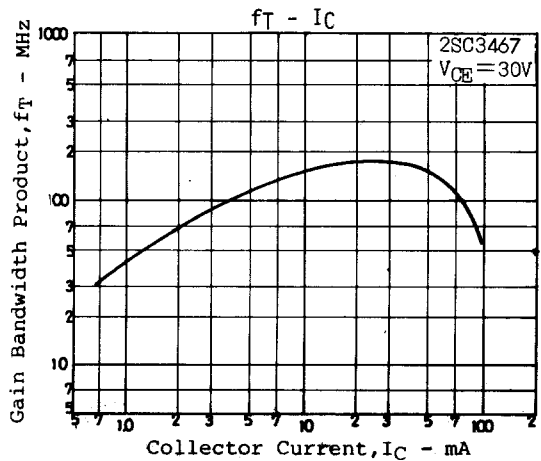
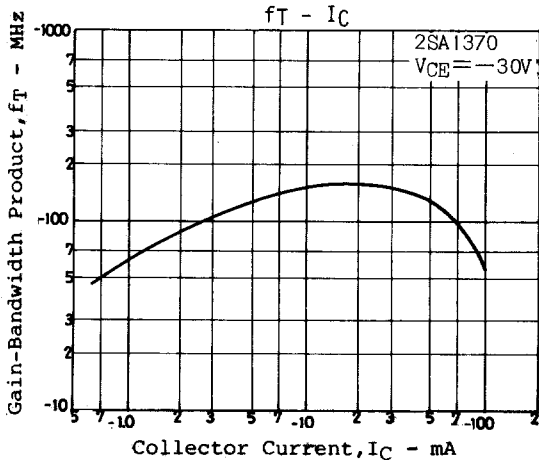
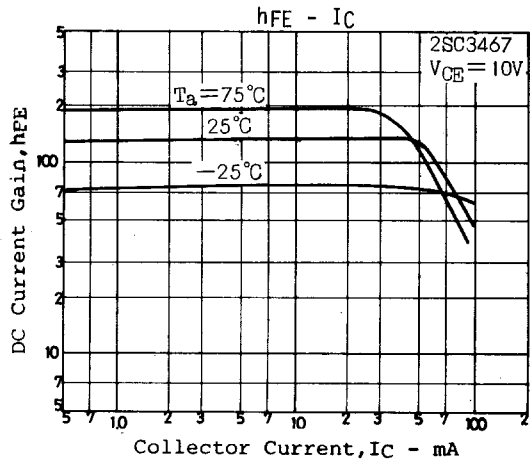
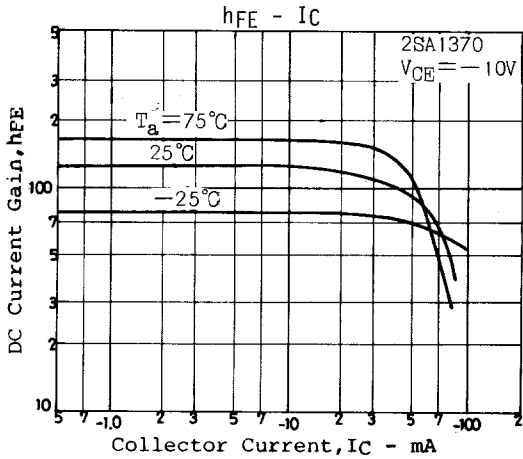
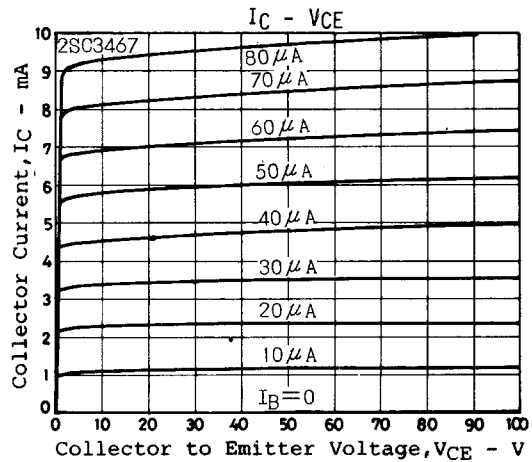
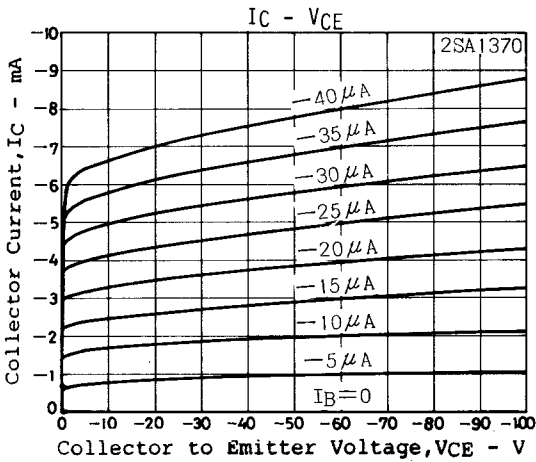
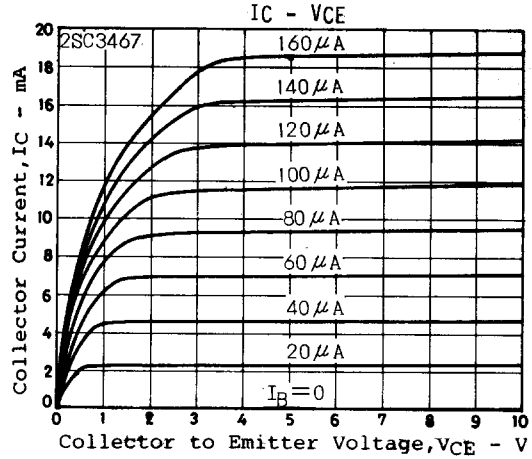
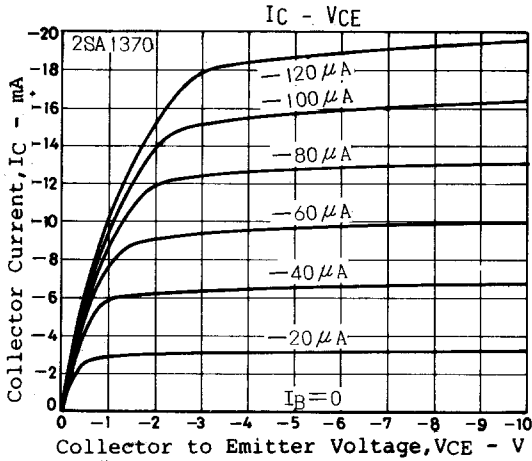
Electrical Characteristics at $T_a = 25^\circ C$

| Parameter | Symbol | Conditions | Ratings | | | Unit |
|---|---------------|----------------------------------|---------|-------|--------|---------|
| | | | min | typ | max | |
| Collector Cutoff Current | I_{CBO} | $V_{CB} = (-)150, I_E = 0$ | | | (-)0.1 | μA |
| Emitter Cutoff Current | I_{EBO} | $V_{EB} = (-)4V, I_C = 0$ | | | (-)0.1 | μA |
| DC Current Gain | h_{FE} | $V_{CE} = (-)10V, I_C = 10mA$ | 40* | | 320* | |
| Gain-Bandwidth Product | f_T | $V_{CE} = (-)30V, I_C = (-)10mA$ | | 150 | | MHz |
| Collector-to-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = (-)20mA, I_B = (-)2mA$ | | | (-)0.6 | V |
| Base-to-Emitter Saturation Voltage | $V_{BE(sat)}$ | $I_C = (-)20mA, I_B = (-)2mA$ | | | (-)1.0 | V |
| Collector-to-Base Breakdown Voltage | $V_{(BR)CBO}$ | $I_C = (-)10\mu A, I_E = 0$ | (-)200 | | | V |
| Collector-to-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C = (-)1mA, R_{BE} = \infty$ | (-)200 | | | V |
| Emitter-to-Base Breakdown Voltage | $V_{(BR)EBO}$ | $I_E = (-)10\mu A, I_C = 0$ | (-)5 | | | V |
| Output Capacitance | C_{ob} | $V_{CB} = (-)30V, f = 1MHz$ | | 1.7 | | pF |
| Reverse Transfer Capacitance | C_{re} | $V_{CB} = (-)30V, f = 1MHz$ | | (2.6) | | pF |
| | | | | 1.2 | | pF |
| | | | | (1.7) | | pF |

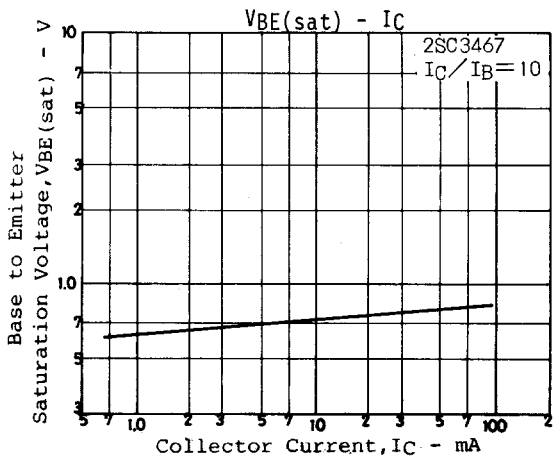
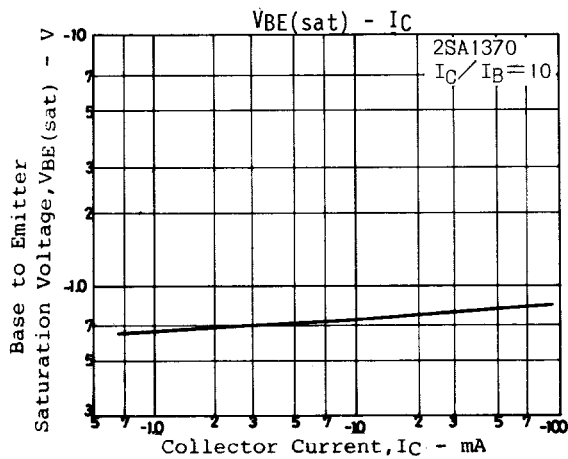
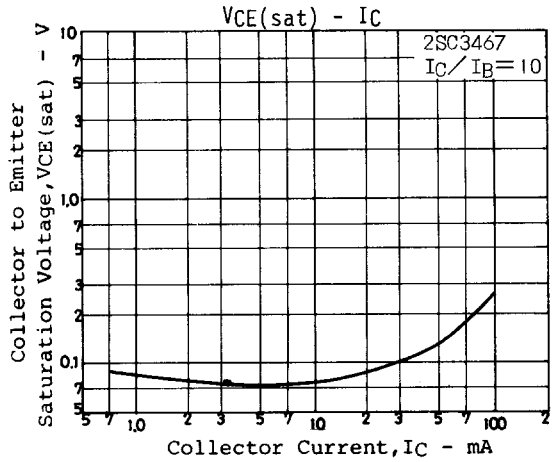
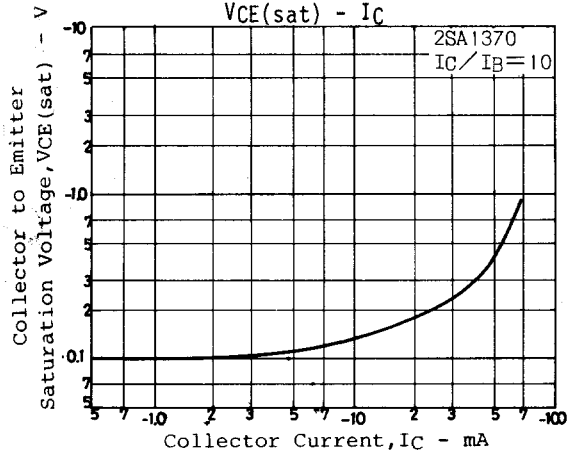
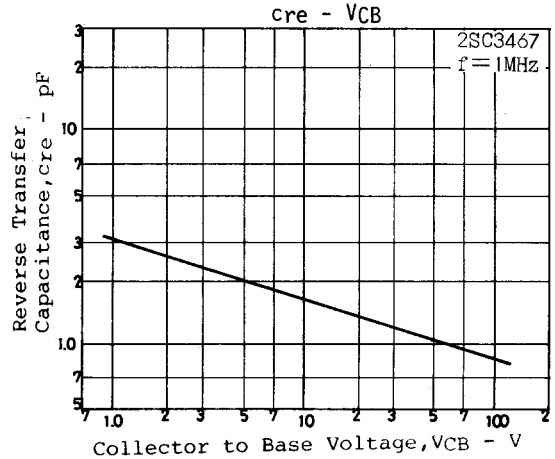
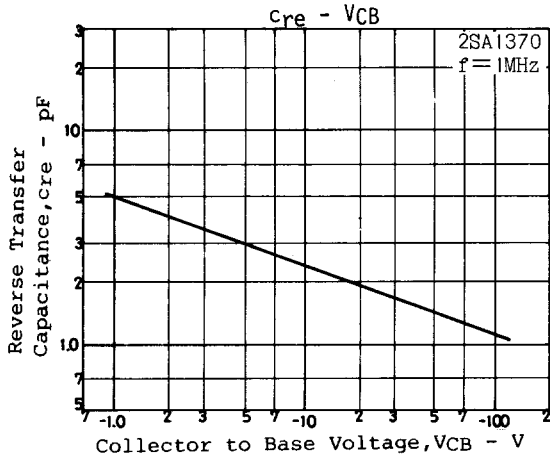
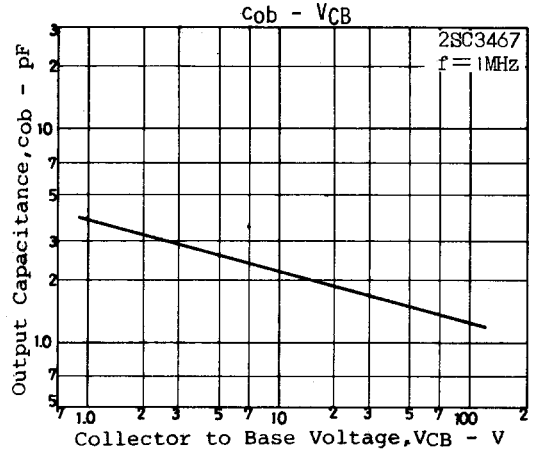
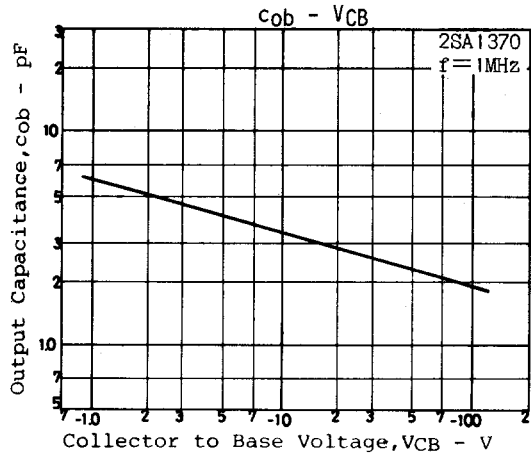
* : The 2SA1370/2SC3467 are classified by 10mA h_{FE} as follows :

| | | | | | | | | | | | |
|----|---|----|----|---|-----|-----|---|-----|-----|---|-----|
| 40 | C | 80 | 60 | D | 120 | 100 | E | 200 | 160 | F | 320 |
|----|---|----|----|---|-----|-----|---|-----|-----|---|-----|

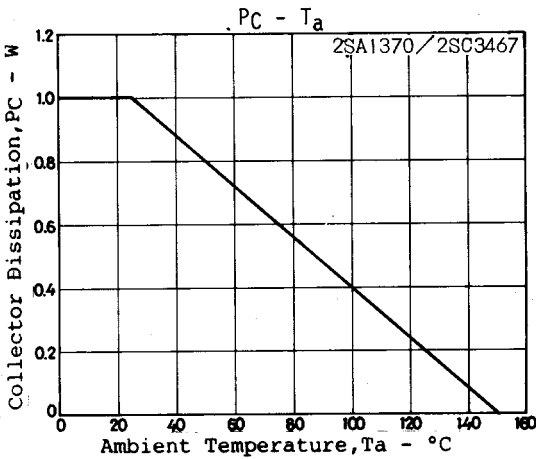
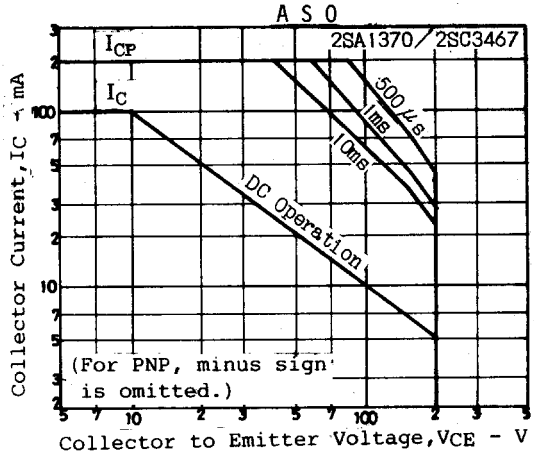
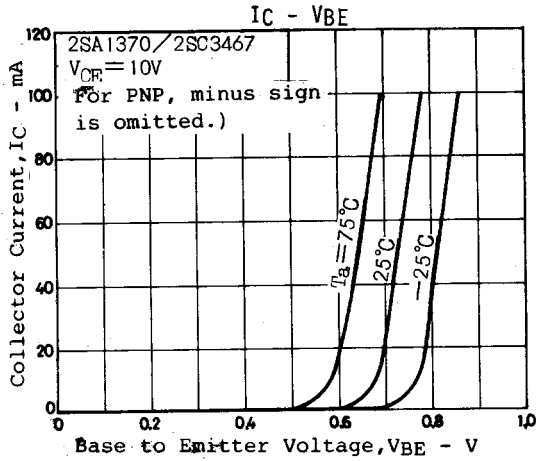
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