

| | | |
|--------------|---------|---|
| SANYO | No.2516 | 2SB1295/2SD1935 |
| | | PNP/NPN Epitaxial Planar Silicon Transistors Low-Frequency General-Purpose Amp Applications |

Applications

- . AF power amp, medium-speed switching, small-sized motor drivers

Features

- . Large current capacity
- . Low collector to emitter saturation voltage
- . Very small-sized package permitting sets to be made smaller and slimer

(): 2SB1295

Absolute Maximum Ratings at Ta=25°C

| | | | unit |
|------------------------------|------------------|-------------|------|
| Collector to Base Voltage | V _{CB0} | (-)15 | V |
| Collector to Emitter Voltage | V _{CEO} | (-)15 | V |
| Emitter to Base Voltage | V _{EBO} | (-)5 | V |
| Collector Current | I _C | (-)0.8 | A |
| Collector Current(Pulse) | I _{CP} | (-)3 | A |
| Collector Dissipation | P _C | 200 | mW |
| Junction Temperature | T _J | 150 | °C |
| Storage Temperature | T _{stg} | -55 to +150 | °C |

Electrical Characteristics at Ta=25°C

| | | | min | typ | max | unit |
|--------------------------|--------------------|---|------|--------|---------------|------|
| Collector Cutoff Current | I _{CB0} | V _{CB} =(-)12V, I _E =0 | | | (-)100 | nA |
| Emitter Cutoff Current | I _{EBO} | V _{EB} =(-)4V, I _C =0 | | | (-)100 | nA |
| DC Current Gain | h _{FE(1)} | V _{CE} =(-)2V, I _C =(-)50mA | 135* | | 900* (600) | |
| Gain-Bandwidth Product | f _T | V _{CE} =(-)2V, I _C =(-)800mA V _{CE} =(-)2V, I _C =(-)50mA | 80 | | 200 (300) | MHz |
| Output Capacitance | c _{ob} | V _{CB} =(-)10V, f=1MHz | | (15)10 | | pF |

Continued on next page.

*: The 2SB1295/2SD1935 are classified by 50mA h_{FE} as follows:

| | | | | | | | | | |
|---------|-----|---|-----|-----|---|-----|-----|---|-----|
| 2SB1295 | 135 | 5 | 270 | 200 | 6 | 400 | 300 | 7 | 600 |
|---------|-----|---|-----|-----|---|-----|-----|---|-----|

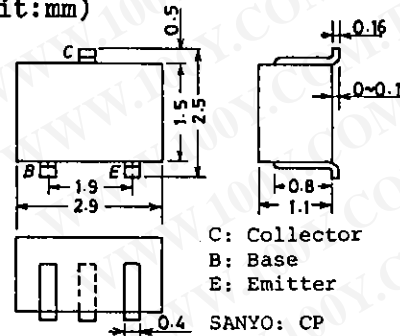
| | | | | | | | | | | | | |
|---------|-----|---|-----|-----|---|-----|-----|---|-----|-----|---|-----|
| 2SD1935 | 135 | 5 | 270 | 200 | 6 | 400 | 300 | 7 | 600 | 450 | 8 | 900 |
|---------|-----|---|-----|-----|---|-----|-----|---|-----|-----|---|-----|

Marking : 2SB1295:UL/2SD1935:CT

h_{FE} rank: 2SB1295:5,6,7/2SD1935:5,6,7,8

Package Dimensions 2018A

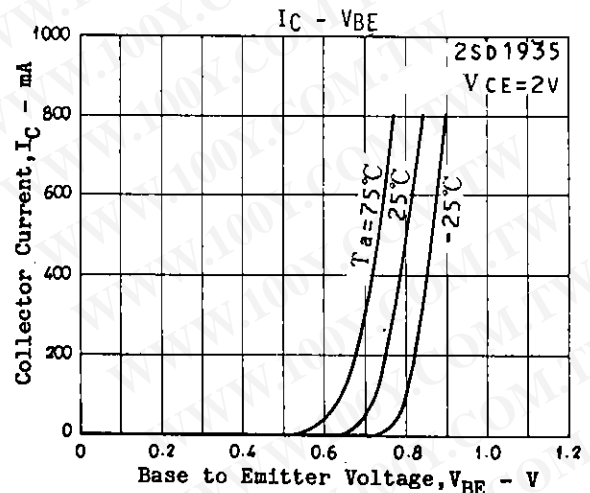
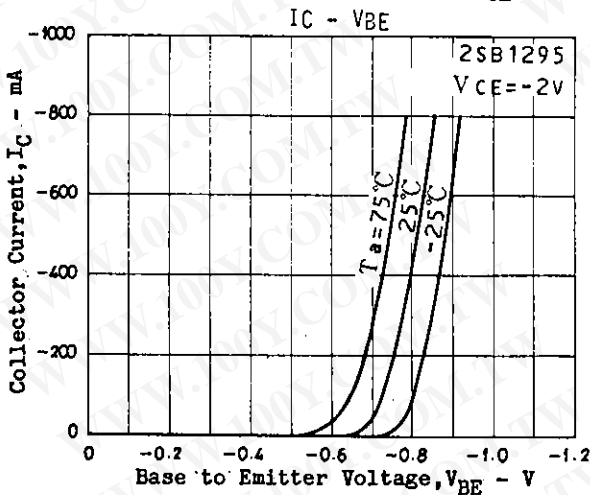
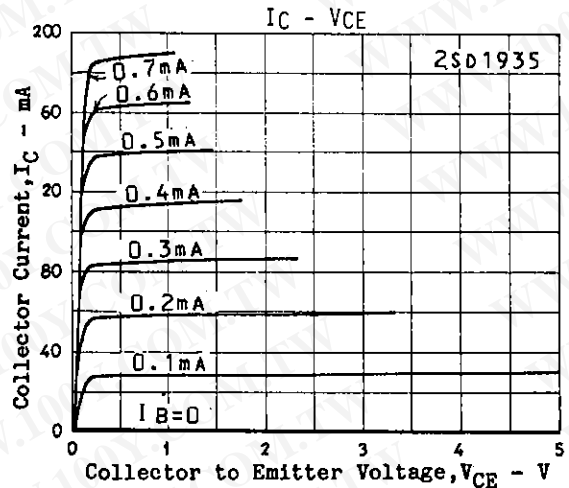
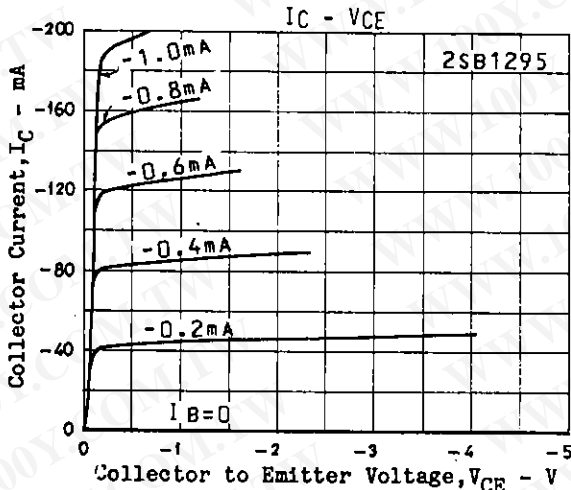
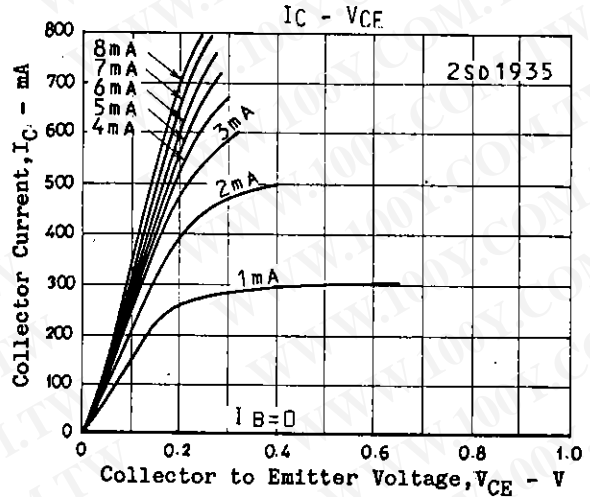
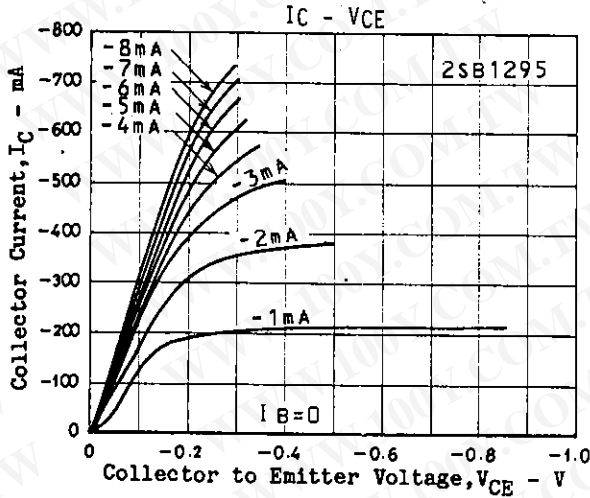
(unit:mm)



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

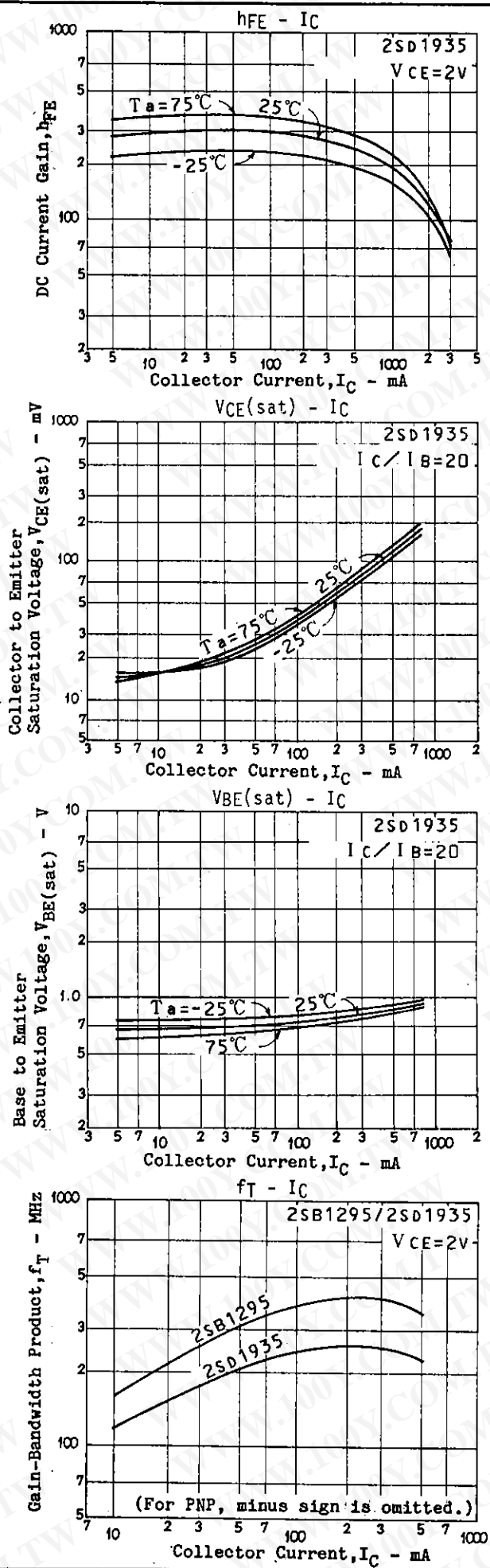
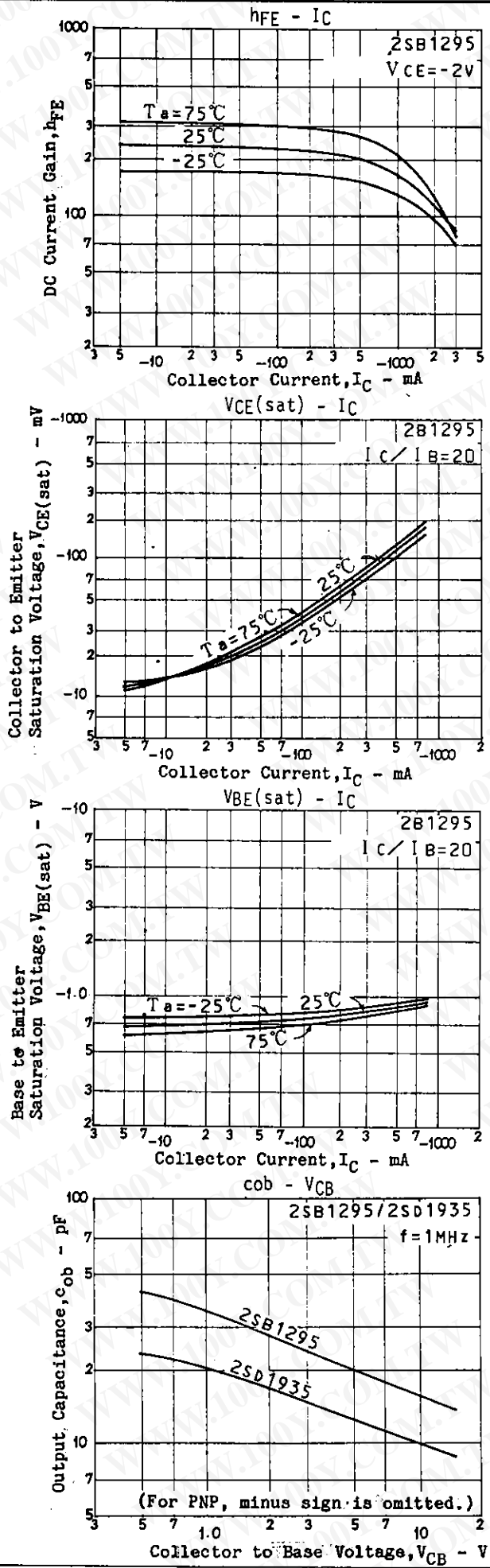
Continued from preceding page.

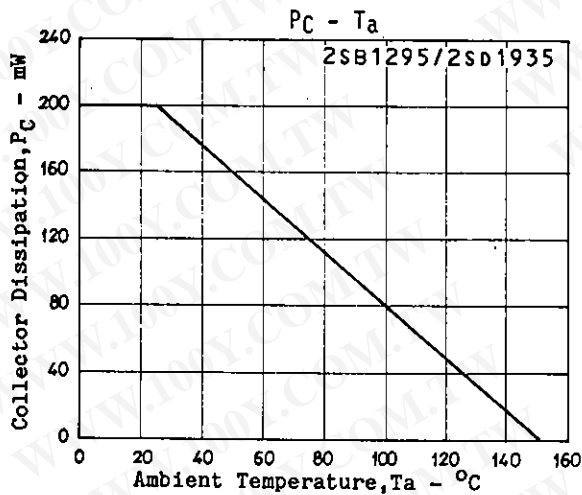
| | | | min | typ | max | unit |
|------------------------|----------------|-----------------------------|--------|--------|-----|------|
| C-E Saturation Voltage | $V_{CE(sat)1}$ | $I_C=(-)5mA, I_B=(-)0.5mA$ | (-)10 | (-)25 | | mV |
| | $V_{CE(sat)2}$ | $I_C=(-)400mA, I_B=(-)20mA$ | (-)100 | (-)200 | | mV |
| B-E Saturation Voltage | $V_{BE(sat)}$ | $I_C=(-)400mA, I_B=(-)20mA$ | (-)0.9 | (-)1.2 | | V |
| C-B Breakdown Voltage | $V_{(BR)CBO}$ | $I_C=(-)10\mu A, I_E=0$ | (-)15 | | | V |
| C-E Breakdown Voltage | $V_{(BR)CEO}$ | $I_C=(-)1mA, R_{BE}=\infty$ | (-)15 | | | V |
| E-B Breakdown Voltage | $V_{(BR)EBO}$ | $I_E=(-)10\mu A, I_C=0$ | (-)5 | | | V |



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

2SB1295/2SD1935





勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.
- Anyone purchasing any products described or contained herein for an above-mentioned use shall:
 - ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
 - ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.