

**CPH6526**

Low-Frequency General-Purpose Amplifier Applications

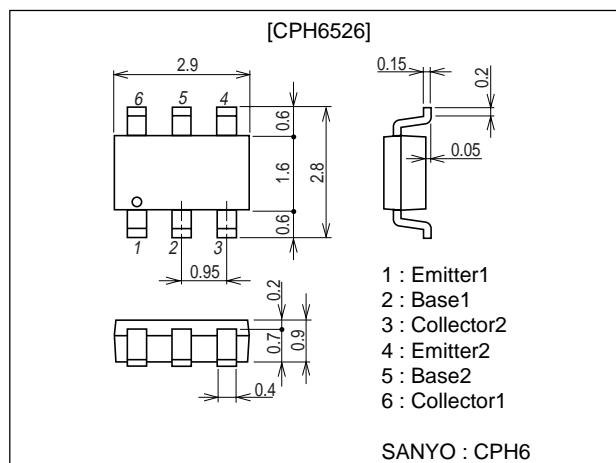
Features

- Composite type with 2 transistors contained in the CPH package currently in use, improving the mounting efficiency greatly.
- The CPH6526 is formed with two chips, being equivalent to the 2SA1622 / 2SC4211, placed in one package.

Package Dimensions

unit : mm

2187



Specifications

() : PNP

Absolute Maximum Ratings at Ta=25°C

| Parameter | Symbol | Conditions | Ratings | Unit |
|------------------------------|------------------|------------|-------------|------|
| Collector-to-Base Voltage | V _{CB0} | | (-)55 | V |
| Collector-to-Emitter Voltage | V _{CEO} | | (-)50 | V |
| Emitter-to-Base Voltage | V _{EBO} | | (-)6 | V |
| Collector Current | I _C | | (-)150 | mA |
| Collector Current (Pulse) | I _{CP} | | (-)300 | mA |
| Base Current | I _B | | (-)30 | mA |
| Collector Dissipation | P _C | 1unit | 350 | mW |
| Total Dissipation | P _T | | 500 | mW |
| Junction Temperature | T _J | | 150 | °C |
| Storage Temperature | T _{stg} | | -55 to +150 | °C |

Electrical Characteristics at Ta=25°C

| Parameter | Symbol | Conditions | Ratings | | | Unit |
|--------------------------|------------------|------------------------------------------------|---------|-----|--------|------|
| | | | min | typ | max | |
| Collector Cutoff Current | I _{CB0} | V _{CB} =(-)35V, 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} =(-)6V, I _C =(-)1mA | 160 | | 600 | |

Marking : 3R

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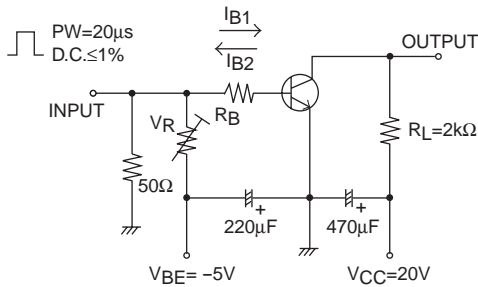
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| Parameter | Symbol | Conditions | Ratings | | | Unit |
|-----------------------------------------|---------------|-----------------------------|---------|-------------|--------|---------|
| | | | min | typ | max | |
| Gain-Bandwidth Product | f_T | $V_{CE}=(-)6V, I_C=(-)10mA$ | | (180)200 | | MHz |
| Output Capacitance | C_{ob} | $V_{CB}=(-)6V, f=1MHz$ | | (2.9)1.7 | | pF |
| Collector-to-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=(-)50mA, I_B=(-)5mA$ | | (-0.11)0.08 | (-)0.4 | V |
| Base-to-Emitter Saturation Voltage | $V_{BE(sat)}$ | $I_C=(-)50mA, I_B=(-)5mA$ | | (-)0.8 | (-)1.0 | V |
| Collector-to-Base Breakdown Voltage | $V_{(BR)CBO}$ | $I_C=(-)10\mu A, I_E=0$ | (-)55 | | | V |
| Collector-to-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C=(-)1mA, R_{BE}=\infty$ | (-)50 | | | V |
| Emitter-to-Base Breakdown Voltage | $V_{(BR)EBO}$ | $I_E=(-)10\mu A, I_C=0$ | (-)6 | | | V |
| Turn ON Time | t_{on} | See specified Test Circuit. | | 0.15 | | μs |
| Storage Time | t_{stg} | See specified Test Circuit. | | (0.60)0.75 | | μs |
| Fall Time | t_f | See specified Test Circuit. | | 0.20 | | μs |

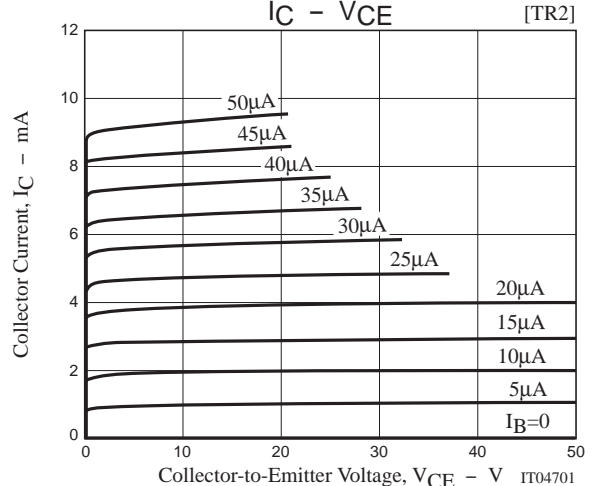
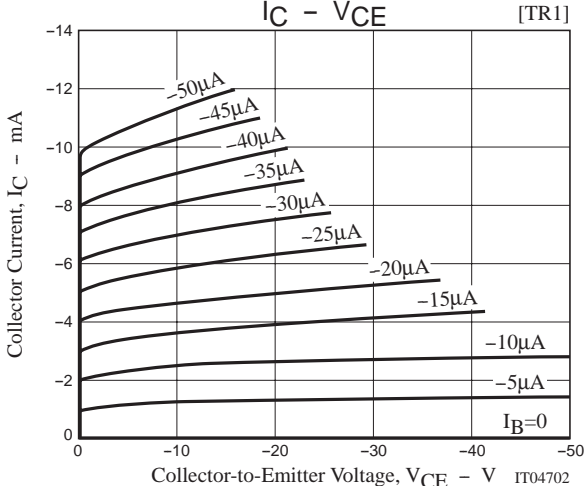
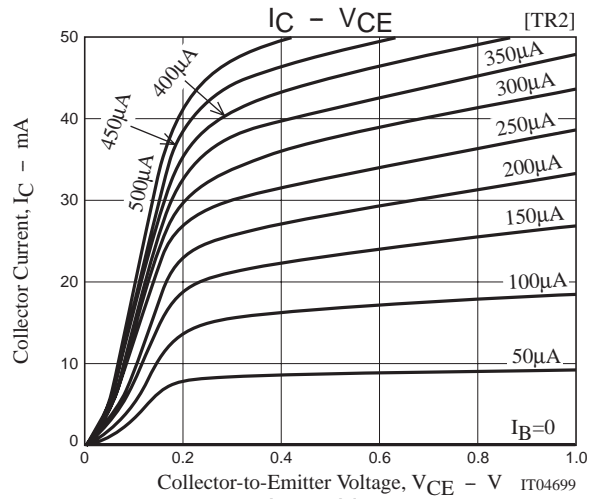
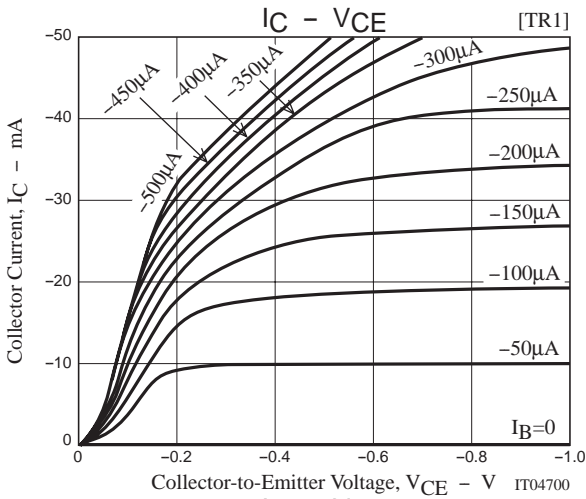
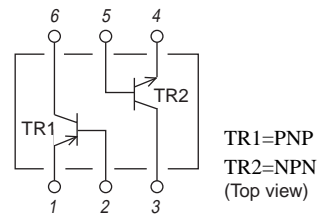
Note : The specifications shown above are for each individual transistor.

Switching Time Test Circuit

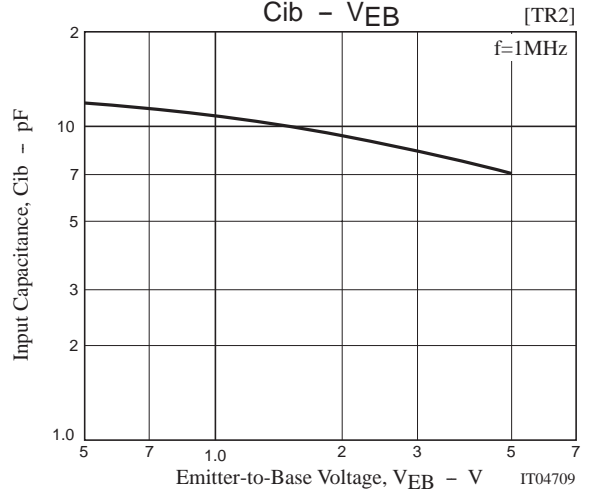
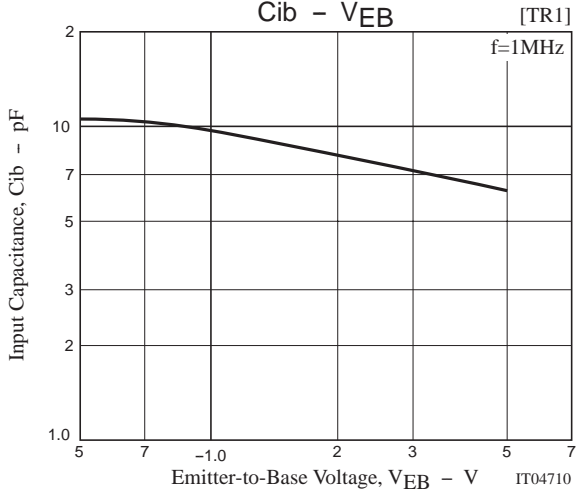
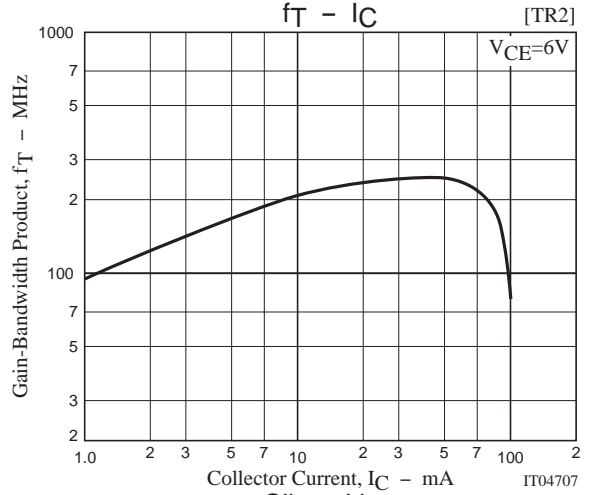
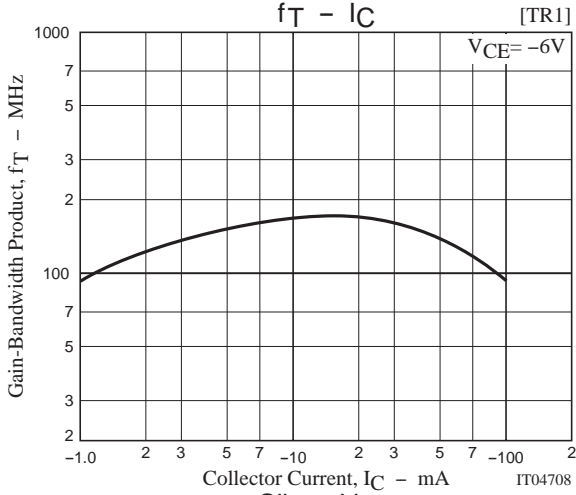
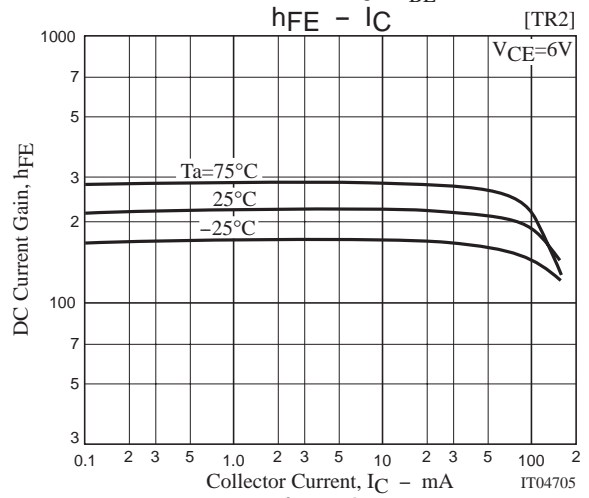
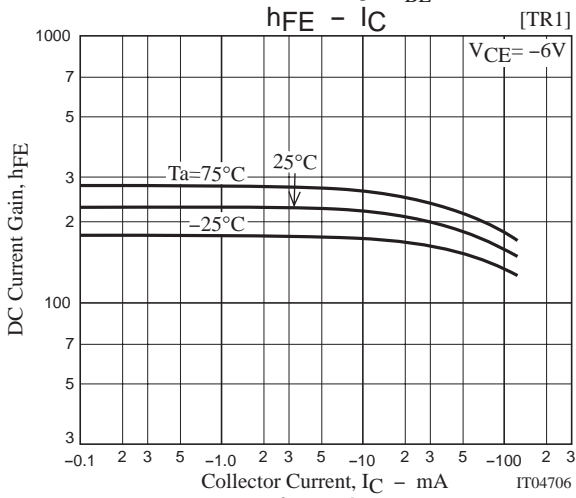
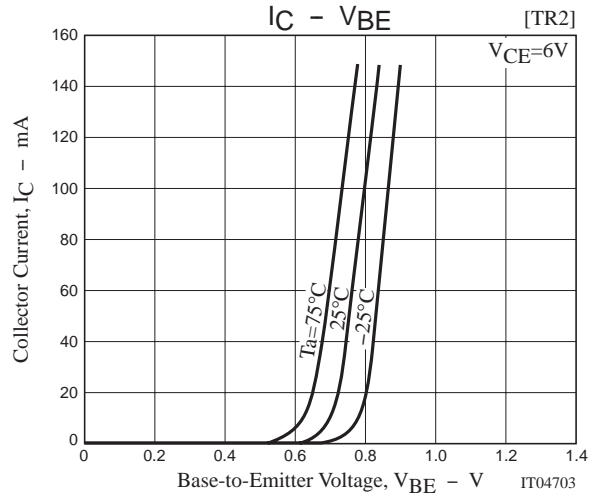
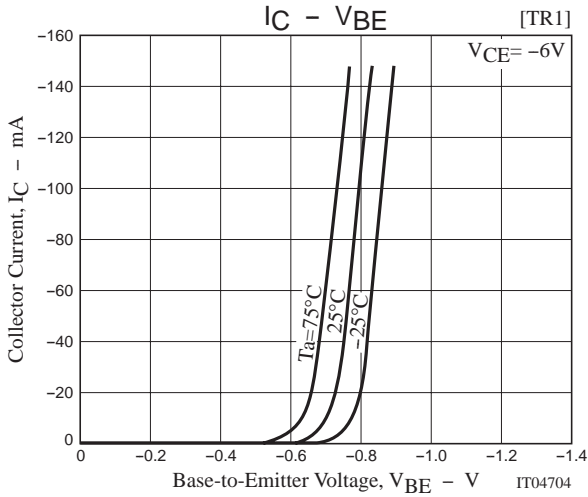


$I_C=10I_{B1} = -10I_{B2}=10mA$
For PNP, the polarity is reversed.

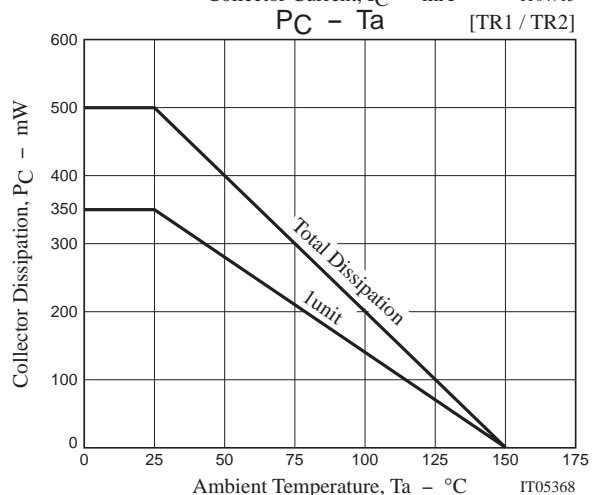
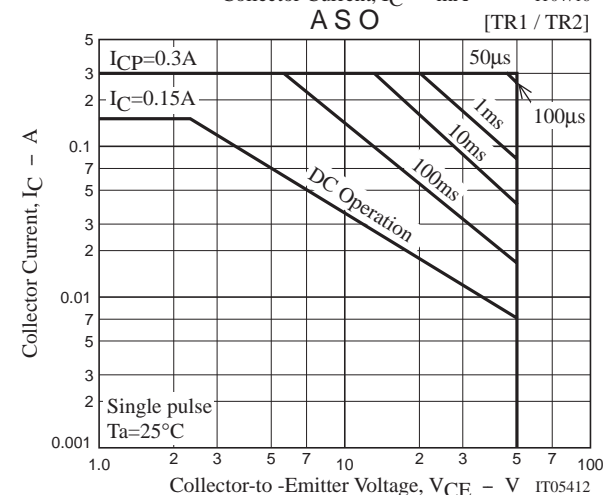
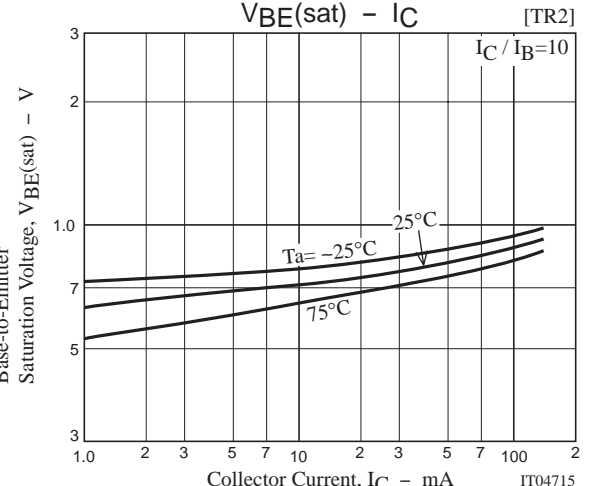
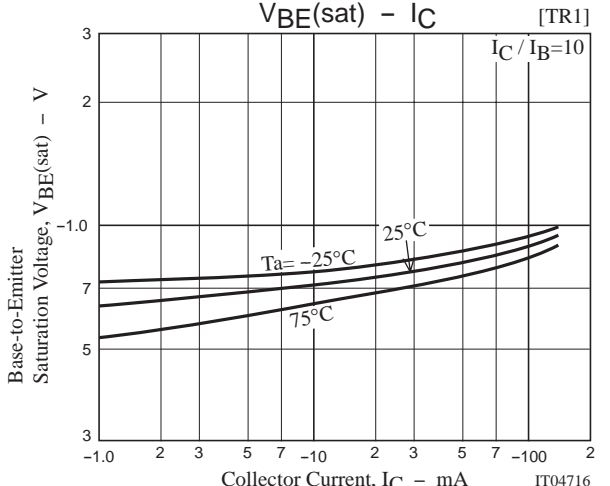
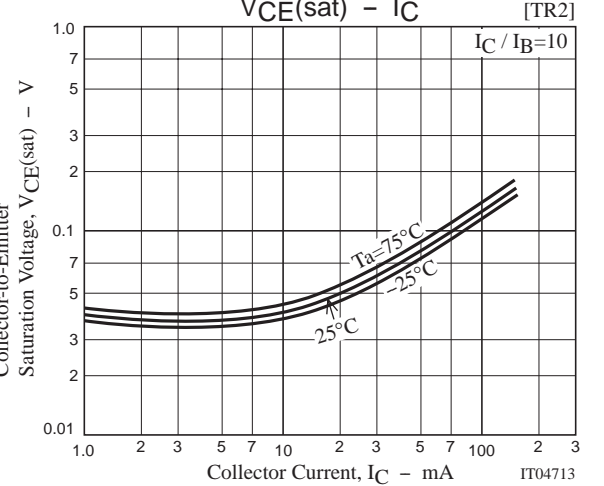
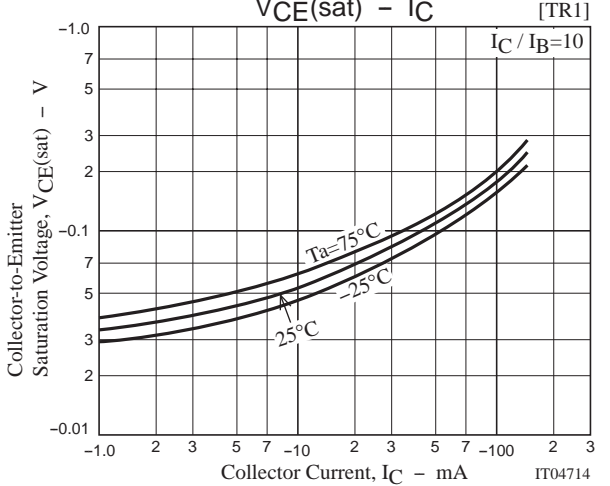
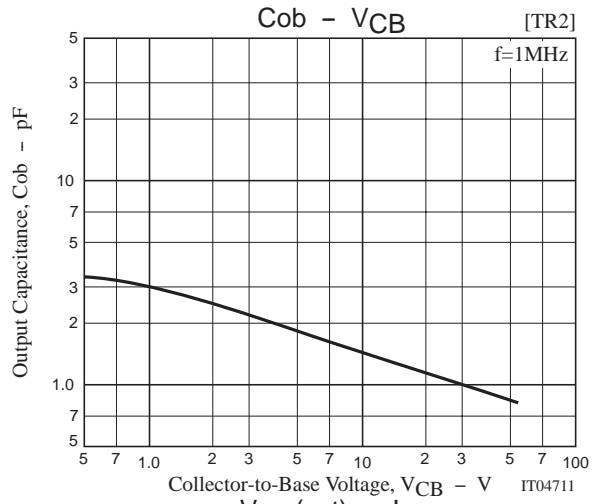
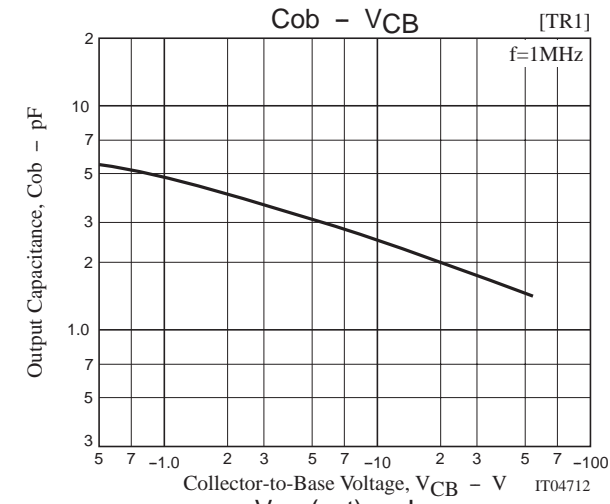
Electrical Connection



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