

## 2SA1317/2SC3330

PNP/ NPN Epitaxial Planar Silicon Transistors

## AF Amp Applications

#### Use

. Capable of being used in the low frequency to high frequency range.

### **Features**

. Large current capacity and wide ASO.

| ( ): 2SA1317                      | _                | gg <sup>er</sup> gg <sup>e</sup>   |                |                     | jan. |
|-----------------------------------|------------------|--|----------------|---------------------|------|
| Absolute Maximum Ratings at Ta=25 | C                | and the second s |                | # 77                | unit |
| Collector to Base Voltage         | VCBO             |  |                | / ( <b>-</b> )60/   | ٧    |
| Collector to Emitter Voltage      | V <sub>CEO</sub> | 11   |                | ( <del>-</del> /)50 | V    |
| Emitter to Base Voltage           | VEBO             | - // @   |                | /( <del>/</del> )6  | V    |
| Collector Current                 | Ic               |  |                | (√)200              | mA   |
| Collector Current (Pulse)         | $I_{CP}$         |  |                | <b>(-)</b> 400      | mA   |
| Collector Dissipation             | P <sub>C</sub>   |  | ****           | 300                 | шW   |
| Junction Temperature              | Tj//             |  |                | 150                 | OC   |
| Storage Temperature               | Tatg             |  | <i>/</i> -55 t | o +150              | °C   |
|                                   | Salatar Alfaria  |  | akirin kirisir |                     |      |

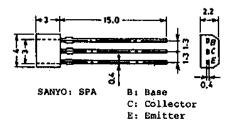
| Electrical Characteristics<br>Collector Cutoff Current | at             | Ta = 25°C  | min   | typ max (-)0.1 | unit<br><sub>#</sub> A |
|--|----------------|--|-------|----------------|------------------------|
| Emitter Cutoff Current                                 |                | 1 <sub>EBO</sub> V <sub>EB</sub> =(-)5V,1 <sub>C</sub> =0  |       | (-)0.1_        | μΑ                     |
| DC Current Gain  | all series     | $h_{\text{FE}(1)}^{\text{BBO}}$ $V_{\text{CE}} = (-)6V, I_{\text{C}} = (-)1mA$                                       | 100   | 800 <b>"</b>   |                        |
|  | New States     |  | (100) | (560)          |                        |
| greek  | and the second | h <sub>FE(2)</sub> V <sub>CB</sub> =(-)6V,I <sub>C</sub> =(-)0.1mi<br>V <sub>CE</sub> =(-)6V,I <sub>C</sub> =(-)10mA | 1 70  |                |                        |
| Gain-Bandwidth Product                                 | i,             | $V_{CR} = (-)6V, I_{C} = (-)10mA$  |       | 200            | MHz                    |
| Output Capacitance                                     |                | CON VGB=(-)6V,f=1MHz   |       | 3.0            | рF                     |
|  | A T            |  |       | (4.0)          |                        |

Continued on next page.

\* The 2SA1317/2SC3330 are classified by 1mA  $h_{FE}$  as follows:

| 2SA1317 | 1.00 | R 200 | 140 \$ | <b>280</b> | 200 | T | 400 | 280 | U | 560 | ]   |   |     |
|---------|------|-------|--------|------------|-----|---|-----|-----|---|-----|-----|---|-----|
| 2803330 | 100  | R 200 | 140 S  | 280        | 200 | Т | 400 | 280 | U | 560 | 400 | V | 800 |

# Case Outline 2033 (unit:mm)



Specifications and information herein are subject to change without notice.

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