

## 2SA1511/2SC3901

PNP/ NPN Epitaxial Planar Silicon Transistors

Switching Applications (with Bias Resistance)

mA mA

## Applications

. Switching circuits, inverter circuits, interface circuits, wiver circuits

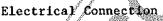
## Features

- . On-chip bias resistance: R1=4.7k  $\Omega$
- . Small-sized package: SPA

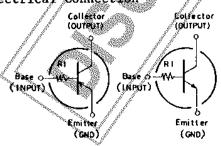
| ( ):2SA1511                     | 2500           | and the second second  |                 |
|---------------------------------|----------------|--|-----------------|
| Absolute Maximum Ratings at Ta- | 25 G           | A STATE OF THE STA | ( ) 50          |
| Collector to Base Voltage       | у<br>СВО       | A A A A A A A A A A A A A A A A A A A  | (-)30           |
| COTTECTOR TO EMITTEE AGERAGE    | , CEO          | asestation and the same  | / NE            |
| Emitter to Base Voltage         | VEBO           | // 4   | (-)3<br>( )160  |
| Collector Current               | †c             |  | (-)100          |
| Collector Current (Pulse)       | ICP            |  | (-)200          |
| Collector Dissipation           | P <sub>C</sub> |  | //300           |
| Junction Temperature            | Tj             | , al (1995)  | <b>*</b> // 150 |
| Storage Temperature             | Tstg//         | Managail 1   | -55∥¢ő +150     |

unit max Electrical Characteristics at Ta ₹25 min typ  $\mu A$ (-)0.1Collector Cutoff Voltage μA (-)0.1Emitter Cutoff Voltage EBO 100 DC Current Gain 250 Gain-Bandwidth Product MHz (200)MHz (-)10V,f=1MHz 3.7 Output Capacitance рF  $\mathbf{p}\mathbf{F}$ (5.5)(-)0.1(-)0.3Collector to Emitter Saturation Voltage ٧ (-)50Collector to Base Breakdown Voltage (-)50V Collector to Emitter

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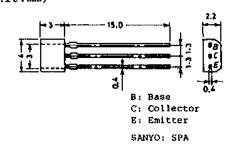


Breakdown Voltage



28A1511(PNP) 28C3901(NPN)

Case Outline 2033 (unit:mm)

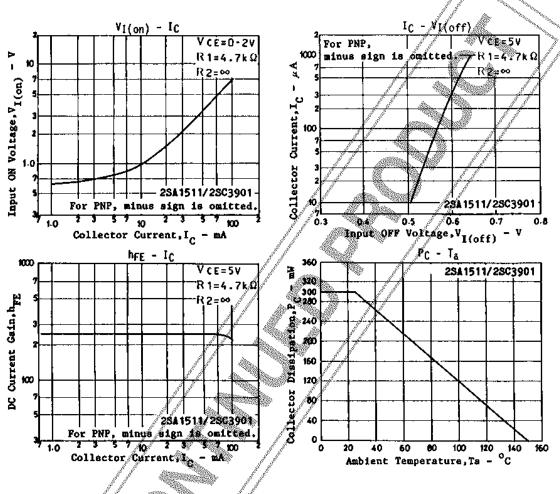


Specifications and information herein are subject to change without notice.

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## Continued from preceding page.

min unit typ max V<sub>CE</sub> (-)5V, I<sub>C</sub> (-)100 \( A\) V<sub>CE</sub> (-)0.2V, V<sub>I(off)</sub> (-)0.4(-)0.55(-)0.8Input OFF Voltage V V<sub>I(on)</sub> (-)0.6(-)1.0(-)2.0V Input ON-State Voltage I<sub>C</sub>=(-)0.2'  $\mathbf{k}\Omega$ Input OFF-State Voltage R1 6.1 3.3



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Datasheets for electronic components.