

2SA1654/2SC4361

PNP/NPN Epitaxial Planar Silicon Transistors

Switching Applications (with Bias Resistance)

Applications

· Switching circuit, inverter circuit, interface circuit, driver circuit

· On-chip bias resistance (R1 = 4.7k Ω , R2 = 10k Ω)

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Absolute Maximum Ratings at	Ta = 25°C
Collector to Base Voltage	V_{CBO}
Collector to Emitter Voltage	V_{CEO}
Emitter to Base Voltage	V_{EBO}
Collector Current	$I_{\mathbf{C}}$
Collector Current (Pulse)	I_{CP}
Collector Dissipation	P_{C}
Junction Temperature	Tj
Storage Temperature	Tstg

= 25°C	
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Electrical Characteristics :	at Ta = 2
Collector Cutoff Current	I _{CBO}
Collector Cutoff Current	I_{CEO}
Emitter Cutoff Current	IEBO
DC Current Gain	h_{FE}
Gain-Bandwidth Product	$\mathbf{f_{T}}$

C-E Saturation Voltage
C-B Breakdown Voltag
C-E Breakdown Voltag
Input OFF-State Voltag
Input ON-State Voltage
Input Resistance 📝
Resistance Ratio

Vibriceo

RI/R2

cob

$V_{CB}\neq (-)40V, I_{E}\neq 0$ $V_{CE} = (-)40V_{AB} = 0$ $V_{\rm EB} = (+)5V, I_{\rm C} = 0$

$$V_{CE} = (-)5V_{AC} = (-)10 \text{mA}$$

 $V_{CE} = (-)10V_{AC} = (-)5 \text{mA}$

$$\begin{array}{lll} V_{CE(sat)} & I_{C} = (-)10 \text{mA}, I_{B} = (-)0.5 \text{mA} \\ V_{(BR)CBO} & I_{C} = (-)19 \mu\text{A}, I_{E} = 0 \\ V_{(BR)CBO} & I_{C} = (-)100 \mu\text{A}, R_{BE} = \infty \\ V_{(IOB)} & V_{CE} = (-)5V, I_{C} = (-)100 \mu\text{A} \\ \end{array}$$

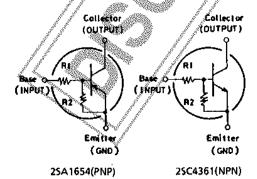
$$V_{CE} = (-)0.2V, I_{C} = (-)100\mu A$$
 $V_{CE} = (-)0.2V, I_{C} = (-)10mA$

unit

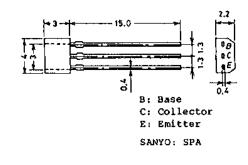
v

0.47

Electrical Connection



Case Outline 2033 (unit: mm)



Specifications and information herein are subject to change without notice.

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