

查询"2SA1511"供应商

No.2105A

SANYO**2SA1511/2SC3901**

PNP/NPN Epitaxial Planar Silicon Transistors

Switching Applications
(with Bias Resistance)**Applications**

- Switching circuits, inverter circuits, interface circuits, driver circuits

Features

- On-chip bias resistance: $R_1=4.7k\Omega$
- Small-sized package: SPA

():2SA1511

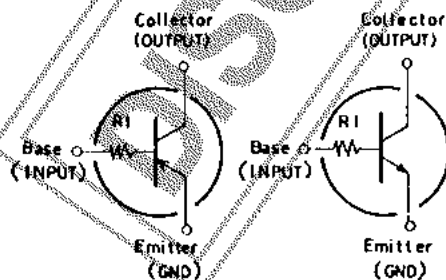
Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

			unit
Collector to Base Voltage	V_{CBO}	(-)50	V
Collector to Emitter Voltage	V_{CEO}	(-)50	V
Emitter to Base Voltage	V_{EBO}	(-)5	V
Collector Current	I_C	(-)100	mA
Collector Current (Pulse)	I_{CP}	(-)200	mA
Collector Dissipation	P_C	300	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

Electrical Characteristics at $T_a=25^\circ\text{C}$

		min	typ	max	unit
Collector Cutoff Voltage	I_{CBO} $V_{CB}=(-)40\text{V}, I_E=0$			(-)0.1	μA
Emitter Cutoff Voltage	I_{EBO} $V_{EB}=(-)5\text{V}, I_C=0$			(-)0.1	μA
DC Current Gain	h_{FE} $V_{CE}=(-)5\text{V}, I_C=(-)10\text{mA}$	100			
Gain-Bandwidth Product	f_T $V_{CE}=(-)10\text{V}, I_C=(-)5\text{mA}$		250 (200)		MHz MHz
Output Capacitance	c_{ob} $V_{CB}=(-)10\text{V}, f=1\text{MHz}$		3.7 (5.5)		pF pF
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$ $I_C=(-)10\text{mA}, I_B=(-)0.5\text{mA}$		(-)0.1(-)0.3		V
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$ $I_C=(-)10\mu\text{A}, I_E=0$	(-)50			V
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$ $I_C=(-)100\mu\text{A}, R_{BE}=\infty$	(-)50			V

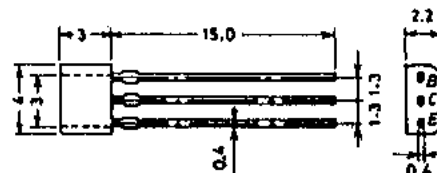
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Electrical Connection

2SA1511(PNP) 2SC3901(NPN)

Case Outline 2033

(unit:mm)

B: Base
C: Collector
E: Emitter

SANYO: SPA

Specifications and information herein are subject to change without notice.

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			min	typ	max	unit
Input OFF Voltage	$V_{I(off)}$	$V_{CE} = (-)5V,$ $I_{CE} = (-)100\mu A$	$(-)0.4$	$(-)0.55$	$(-)0.8$	V
Input ON-State Voltage	$V_{I(on)}$	$V_{CE} = (-)0.2V,$ $I_{CE} = (-)10mA$	$(-)0.6$	$(-)1.0$	$(-)2.0$	V
Input OFF-State Voltage	R_1		3.3	4.7	6.1	k Ω

