## 2SA1510, 2SC3900



T-37-/3
T-35-//
PNP/NPN Epitaxial Planar
Silicon Transistors

### **Switching Applications**

(with Bias Resistance R1=4.7kΩ)

#### €2104A

#### Applications

. Switching circuits, inverter circuits, interface circuits, driver circuits

#### Features

- . On-chip bias resistance: R1=4.7kohms
- . Small-sized package: CP

#### ():2SA1510

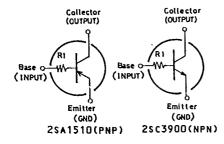
( )	_		
Absolute Maximum Ratings at Ta-	=25°C		unit
Collector to Base Voltage	Vano	(-)50	V
Collector to Emitter Voltage	VCBO .	(-)50	V
Emitter to Base Voltage	VEBO	(~)5	V
Collector Current	T	(-)100	mA
Peak Collector Current	icn	(-) 200	mA
Collector Dissipation	PCP	200	щW
Junction Temperature	Tj	150	o C
Storage Temperature	Tstg	-55 to +150	°c

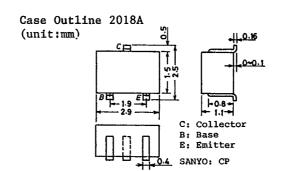
Electrical Characteristics Collector Cutoff Current Emitter Cutoff Current DC Current Gain	ICBO IEBO	$V_{CB} = (-)40V, I_{E} = 0$ $V_{DD} = (-)5V, I_{C} = 0$	m <b>i</b> n	typ max (-)0.1 (-)0.1	unit uA uA
Gain-Bandwidth Product	f <sub>T</sub> FE	$V_{CE}^{EB} = (-)5V, I_{C}^{C} = (-)10mA$ $V_{CE}^{CE} = (-)10V, I_{C}^{C} = (-)5mA$		250	MHz
	•	02		(200)	MHz
Output Capacitance	c <sub>ob</sub>	$V_{CR} = (-)10V, f = 1MHz$		3.7	$\mathbf{pF}$
		OB		(5.5)	ρF
Collector to Emitter Saturation Voltage	V <sub>CE(sat)</sub>	$I_{C} = (-) 10 \text{mA}, I_{B} = (-) 0.5 \text{mA}$	A	(-)0.1(-)0.3	V
Collector to Base	A (BB) CBO	$I_{C} = (-) 10uA, I_{E} = 0$	(-) 50	•	v
Breakdown Voltage					
Collector to Emitter Breakdown Voltage	V (BR) CEO	$I_{C}^{=(-)100uA,R_{BE}^{=}\infty}$	(-) 50		V

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Marking: 2SA1510: KL, 2SC3900: SY

#### Electrical Connection





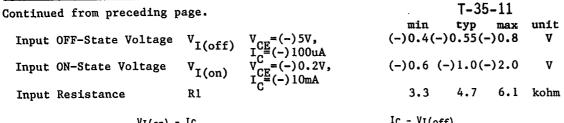


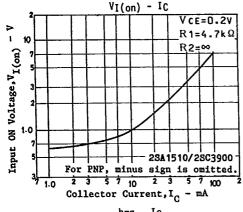
36, Will COLL

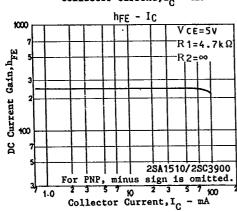
3307KI/8076AT,TS No.2104-1/2

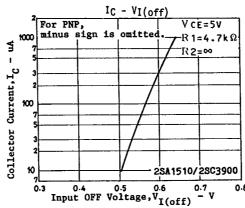
2SA1510/2SC3900

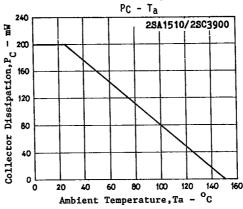
T-37-13











### T-91-20

### CASE OUTLINES OF SURFACE MOUNT TRANSISTORS

- •All of Sanyo surface mount transistor case outlines are illustrated below.
- •All dimensions are in mm, and dimensions which are not followed by min. or max. are represented by typical values.
- No marking is indicated.

