

<b>SANYO</b>	No.4721	<b>2SA1866</b>
		PNP Epitaxial Planar Silicon Transistor

**Muting Circuits, Driver Applications**

**Features**

- On-chip bias resistors (R1 = 47kΩ, R2 = 47kΩ).
- Very small-sized package making 2SA1866-applied sets small and slim.
- Small ON resistance.
- High gain-bandwidth product  $f_T$ .

**Absolute Maximum Ratings at Ta = 25°C**

			unit
Collector-to-Base Voltage	$V_{CBO}$	-15	V
Collector-to-Emitter Voltage	$V_{CEO}$	-15	V
Emitter-to-Base Voltage	$V_{EBO}$	-10	V
Input Voltage	$V_{IN}$	-14	V
Collector Current	$I_C$	-50	mA
Collector Current (Pulse)	$I_{CP}$	-100	mA
Base Current	$I_B$	-10	mA
Collector Dissipation	$P_C$	150	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-55 to +150	°C

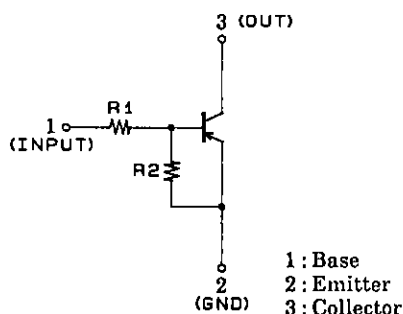
**Electrical Characteristics at Ta = 25°C**

			min	typ	max	unit
Collector Cutoff Current	$I_{CBO}$	$V_{CB} = -10V, I_E = 0$			-0.1	μA
Collector Cutoff Current	$I_{CEO}$	$V_{CE} = -10V, I_B = 0$			-0.5	μA
Emitter Cutoff Current	$I_{EBO}$	$V_{EB} = -5V, I_C = 0$	-30	-53	-80	μA
DC Current Gain	$h_{FE}$	$V_{CE} = -2V, I_C = -5mA$	100			
Gain-Bandwidth Product	$f_T$ *	$V_{CE} = -5V, I_C = -10mA$		600		MHz
Output Capacitance	$C_{ob}$ *	$V_{CB} = -10V, f = 1MHz$		0.9		pF
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = -2mA, I_B = -0.2mA$		-20	-60	mV
C-B Breakdown Voltage	$V_{(BR)CBO}$	$I_C = -10μA, I_E = 0$	-15			V
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -1mA, R_{BE} = ∞$	-15			V
Input OFF-State Voltage	$V_{IN(off)}$	$V_{CE} = -2V, I_C = -100μA$	-0.8	-1.2	-1.5	V
Input ON-State Voltage	$V_{IN(on)}$	$V_{CE} = -0.3V, I_C = -5mA$	-1.0	-2.3	-4.0	V
Input Resistance	R1		32	47	62	kΩ
Resistance Ratio	R1/R2		0.9	1.0	1.1	
ON Resistance	$R_{on}$	$V_{IN} = -10V, f = 1MHz$		10.0		Ω

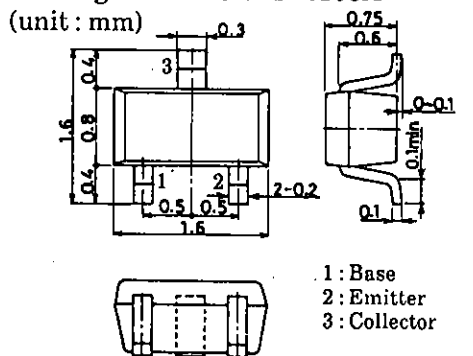
\* : Characteristic of the constituent transistor.

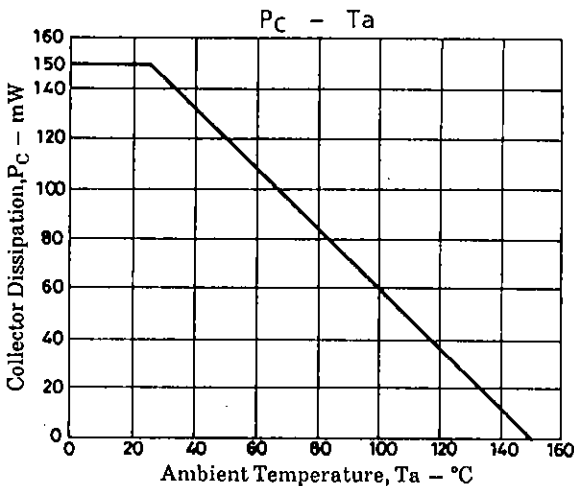
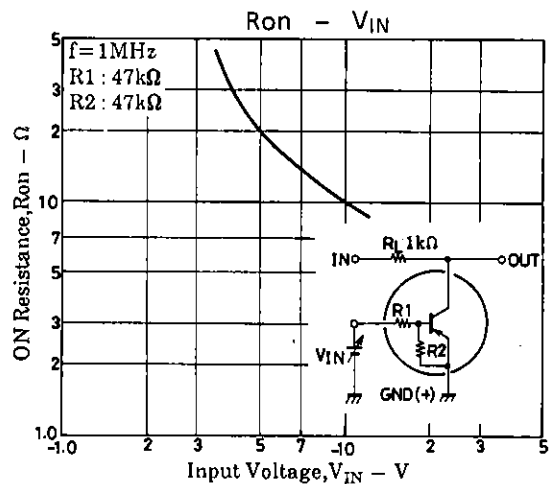
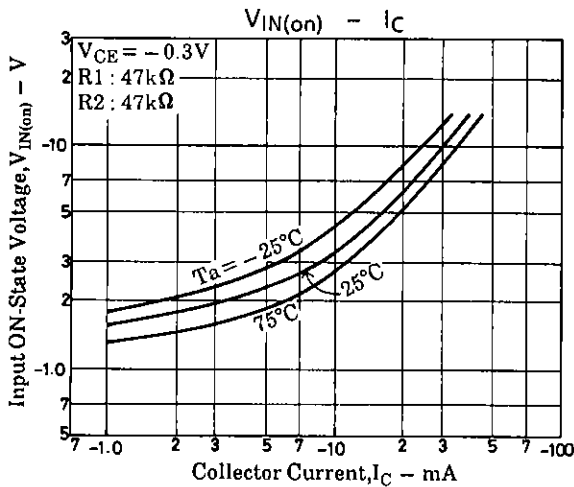
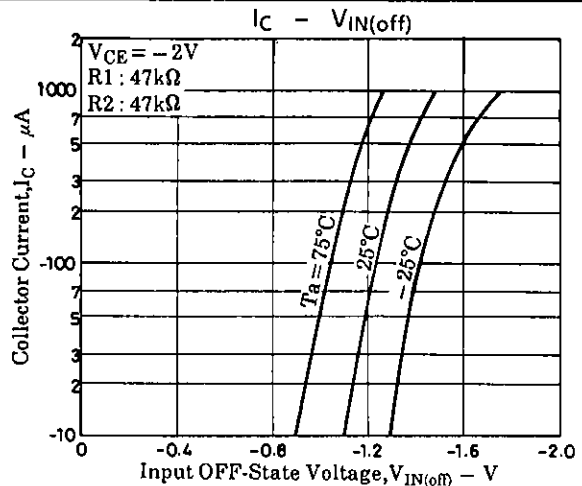
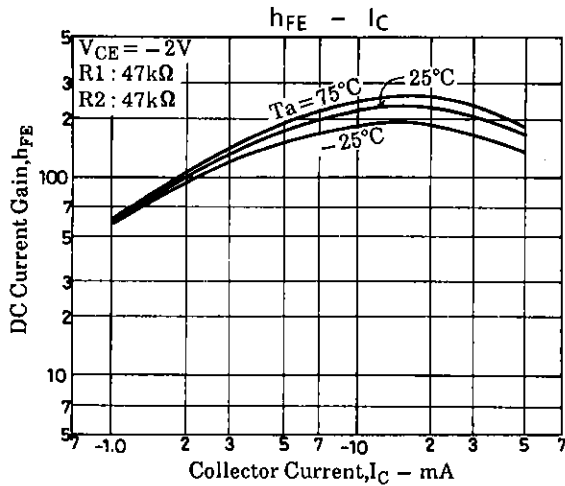
Marking : CA

**Electrical Connection**



**Package Dimensions 2106A**





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