

<b>SANYO</b>	No.4411	<b>2SC4910</b>
		NPN Epitaxial Planar Silicon Transistor

## VHF-Band Power Amp Applications

**Features**

- On-chip emitter ballast resistors.

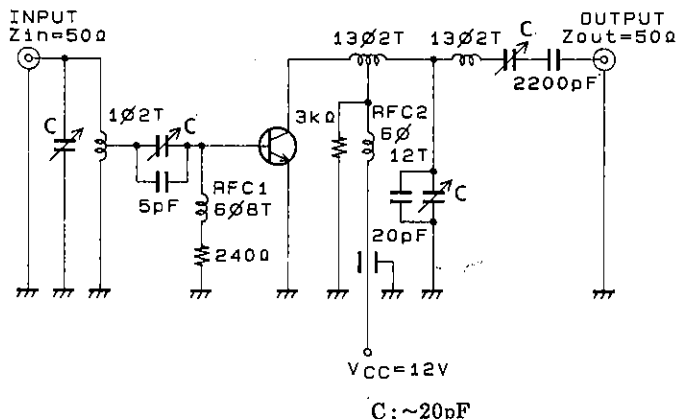
**Absolute Maximum Ratings at Ta = 25°C**

			unit
Collector-to-Base Voltage	V <sub>CB0</sub>	38	V
Collector-to-Emitter Voltage	V <sub>CE0</sub>	18	V
Emitter-to-Base Voltage	V <sub>EBO</sub>	3	V
Collector Current	I <sub>C</sub>	0.75	A
Collector Current (Pulse)	I <sub>CP</sub>	1.2	A
Base Current	I <sub>B</sub>	150	mA
Collector Dissipation	P <sub>C</sub>	1.5	W
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature	T <sub>stg</sub>	-55 to +150	°C

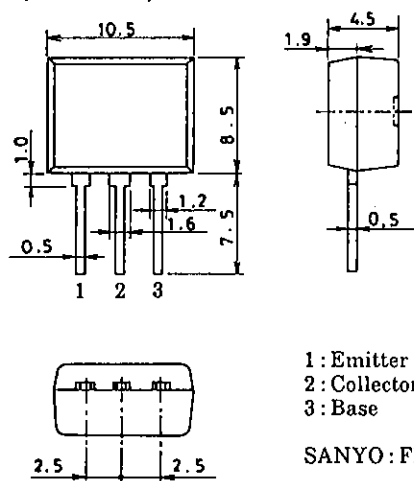
**Electrical Characteristics at Ta = 25°C**

			min	typ	max	unit
Collector Cutoff Current	I <sub>CB0</sub>	V <sub>CB</sub> = 30V, I <sub>E</sub> = 0			50	μA
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> = 2V, I <sub>C</sub> = 0			50	μA
DC Current Gain	h <sub>FE</sub>	V <sub>CE</sub> = 10V, I <sub>C</sub> = 200mA	20		200	
C-B Breakdown Voltage	V <sub>(BR)CB0</sub>	I <sub>C</sub> = 100μA, I <sub>E</sub> = 0	38			V
C-E Breakdown Voltage	V <sub>(BR)CE0</sub>	I <sub>C</sub> = 1mA, R <sub>BE</sub> = ∞	18			V
E-B Breakdown Voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> = 100μA, I <sub>C</sub> = 0	3			V
Output Capacitance	C <sub>ob</sub>	V <sub>CB</sub> = 10V, f = 1MHz		6	10	pF
Output Power	P <sub>O</sub>	V <sub>CC</sub> = 12V, f = 175MHz, P <sub>IN</sub> = 50mW	0.7	0.9		W
Collector Efficiency	η <sub>c</sub>	See specified Test Circuit.	55	70		%

**Collector Efficiency Test Circuit**

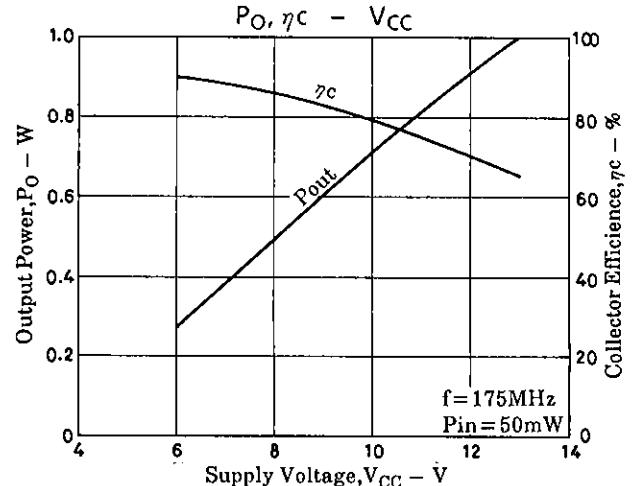
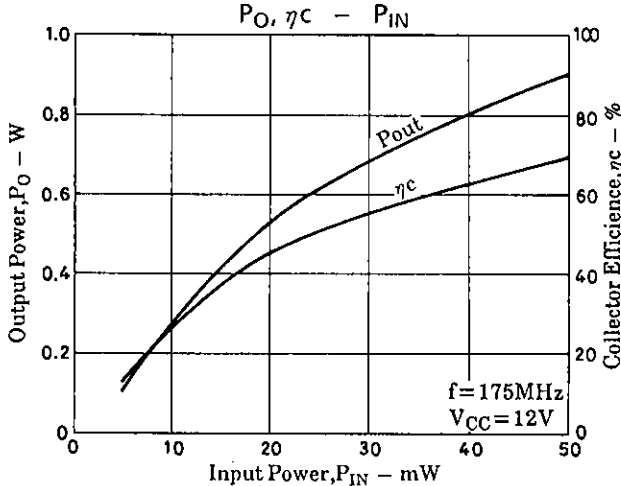
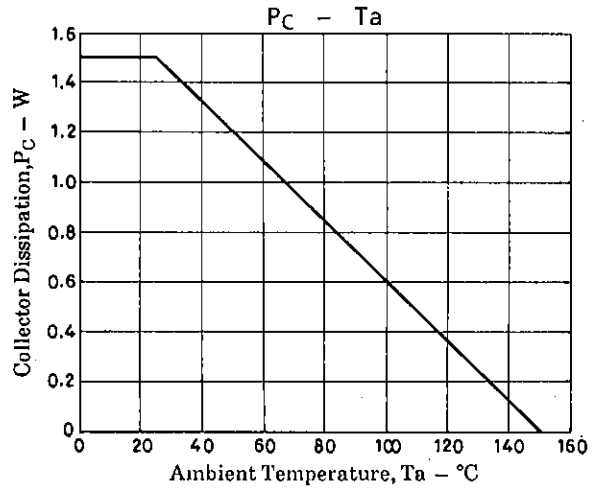
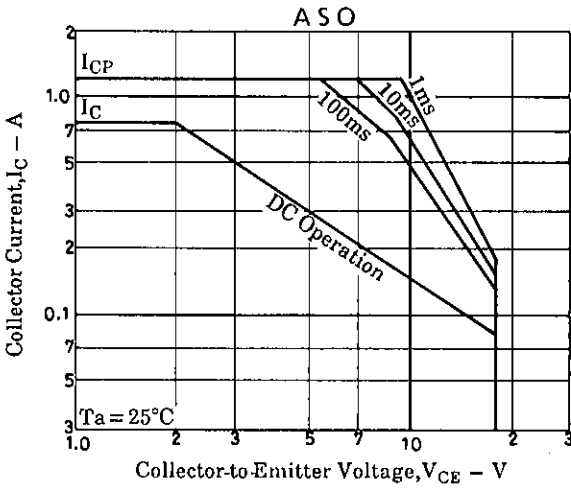
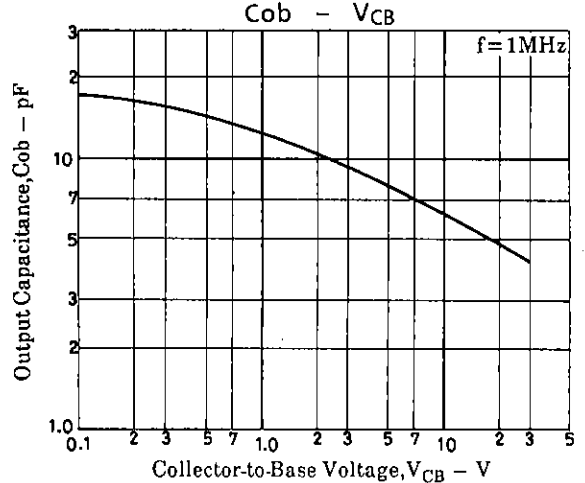
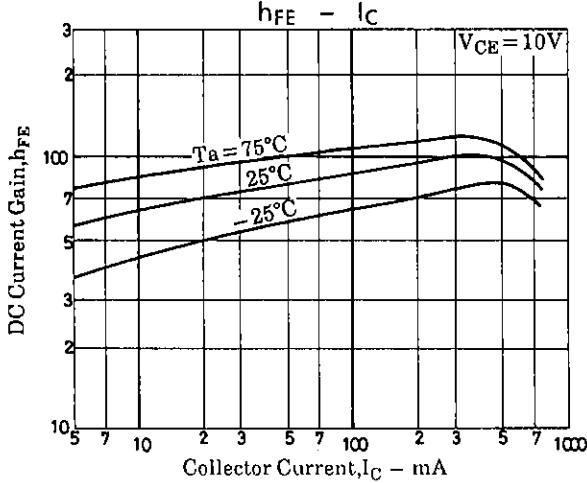
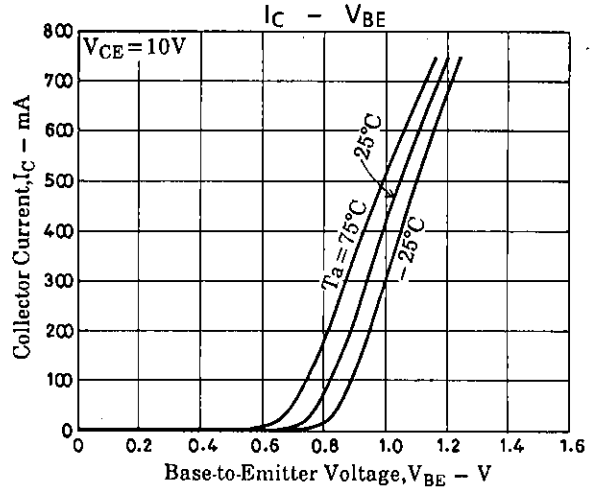
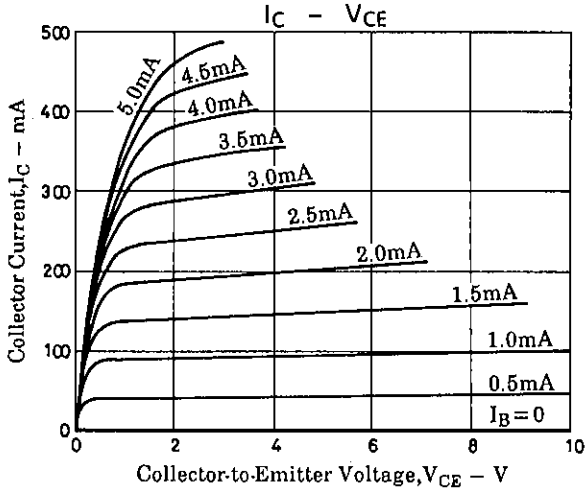


**Package Dimensions 2084A**  
(unit: mm)



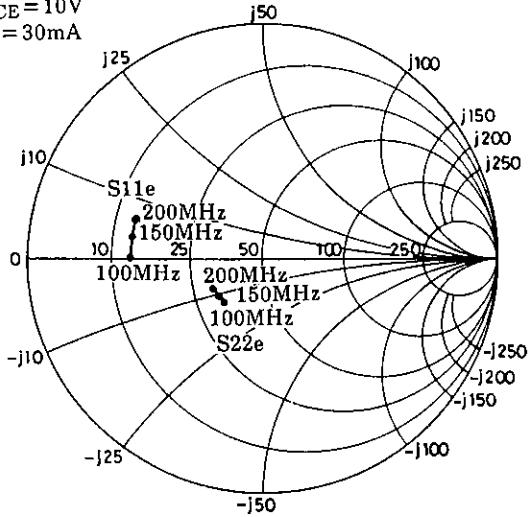
1: Emitter  
2: Collector  
3: Base

SANYO: FLP



## S Parameter

$Z_0 = 50\Omega$   
 $V_{CE} = 10V$   
 $I_C = 30mA$



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