

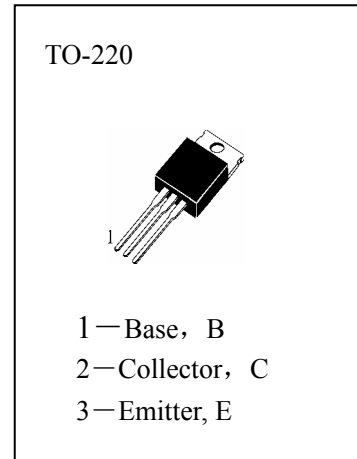
# HC2344

## APPLICATIONS

High Voltage switching, AF Power Amp.

## ABSOLUTE MAXIMUM RATINGS (T<sub>a</sub>=25°C)

T <sub>stg</sub>	Storage Temperature	-55~150°C
T <sub>j</sub>	Junction Temperature	150°C
P <sub>C</sub>	Collector Dissipation (T <sub>c</sub> =25°C)	25W
V <sub>CBO</sub>	Collector-Base Voltage	180V
V <sub>CEO</sub>	Collector-Emitter Voltage	160V
V <sub>EBO</sub>	Emitter-Base Voltage	6V
I <sub>C</sub>	Collector Current (DC)	1.5A
I <sub>CP</sub>	Collector Current (Pulse)	3A

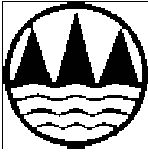


## ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage	180			V	I <sub>C</sub> =1mA, I <sub>E</sub> =0
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	160			V	I <sub>C</sub> =1mA, I <sub>B</sub> =0
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	6			V	I <sub>E</sub> =1mA, I <sub>C</sub> =0
I <sub>CBO</sub>	Collector Cutoff Current			10	μ A	V <sub>CB</sub> =120V, I <sub>E</sub> =0
I <sub>EBO</sub>	Emitter-Base Cutoff Current			10	μ A	V <sub>EB</sub> =4V, I <sub>C</sub> =0
H <sub>FE</sub>	DC Current Gain	60		200		V <sub>CE</sub> =5V, I <sub>C</sub> =300mA
V <sub>CE(sat)</sub>	Collector- Emitter Saturation Voltage		0.3	1.0	V	I <sub>C</sub> =500mA, I <sub>B</sub> =50mA
V <sub>BE</sub>	Base- Emitter Voltage			1.5	V	V <sub>CE</sub> =5V, I <sub>C</sub> =10A
C <sub>ob</sub>	Output Capacitance		23		pF	V <sub>CB</sub> =10V, f=1MHz
f <sub>T</sub>	Current Gain-Bandwidth Product		100		MHZ	V <sub>CE</sub> =10V, I <sub>C</sub> =50mA,
t <sub>on</sub>	Turn-On Time	0.15			μ S	
t <sub>f</sub>	Fall Time	0.48			μ S	See specified test circuit
t <sub>stg</sub>	Storage Time	0.81			μ S	

## h<sub>FE</sub> Classification

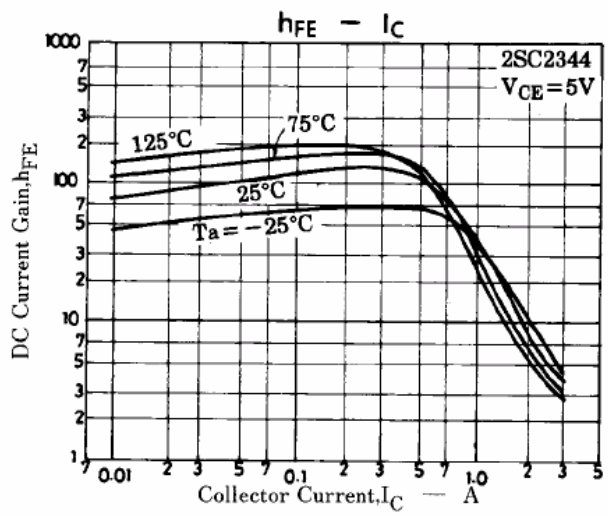
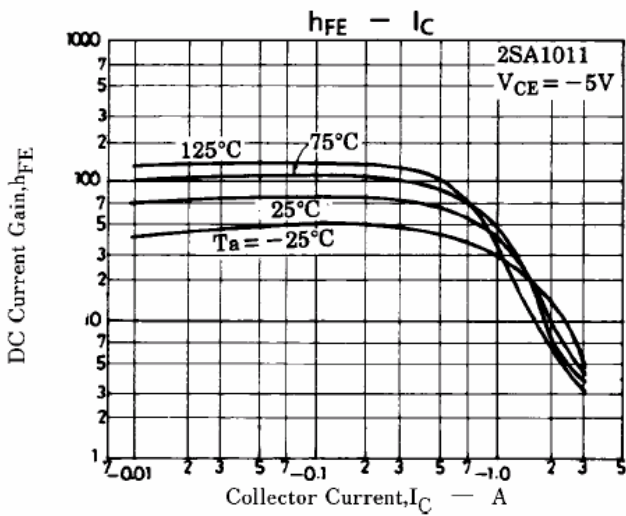
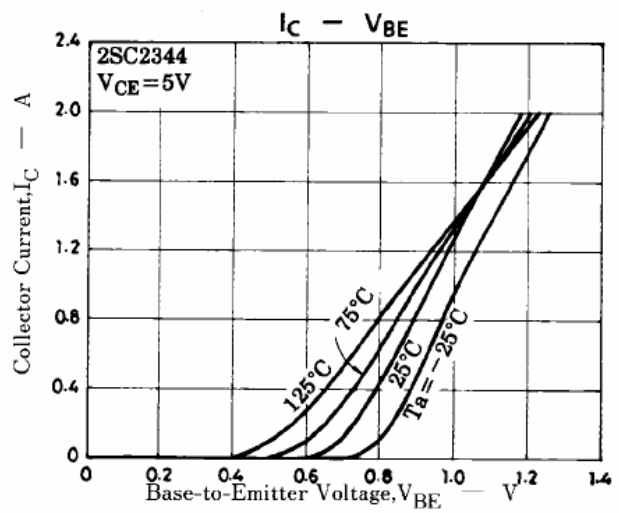
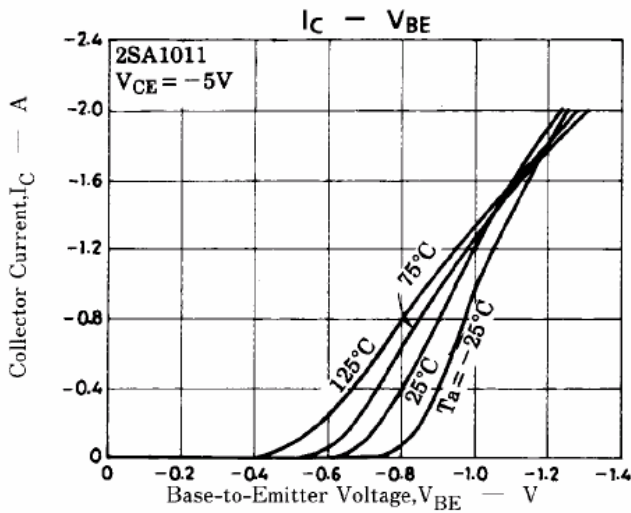
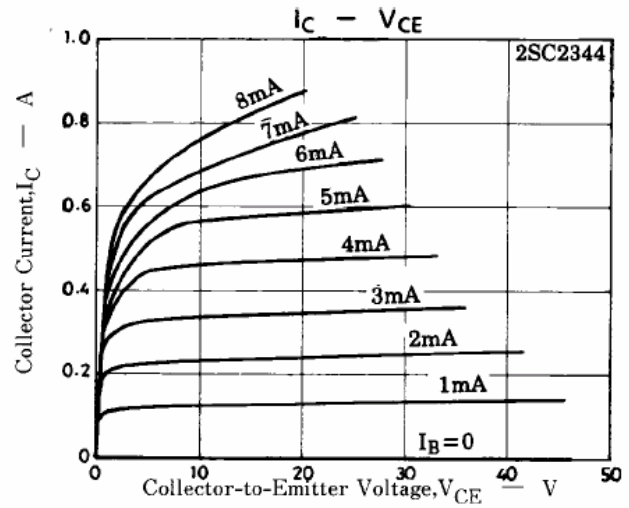
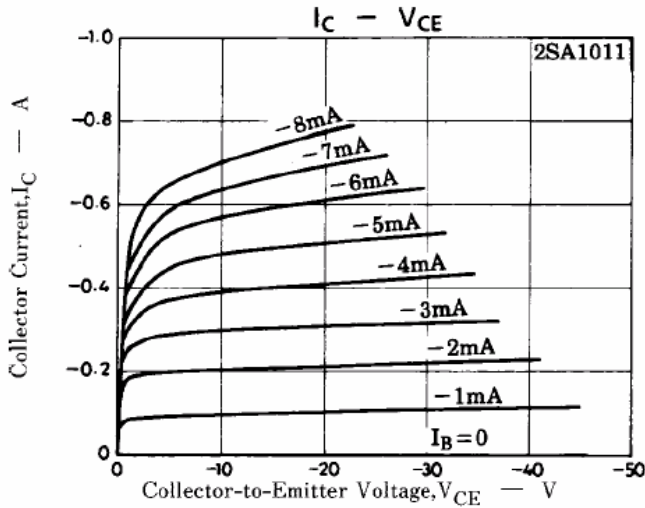
D	E
60—120	100—200

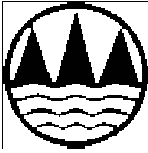


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NPN SILICON TRANSISTOR

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