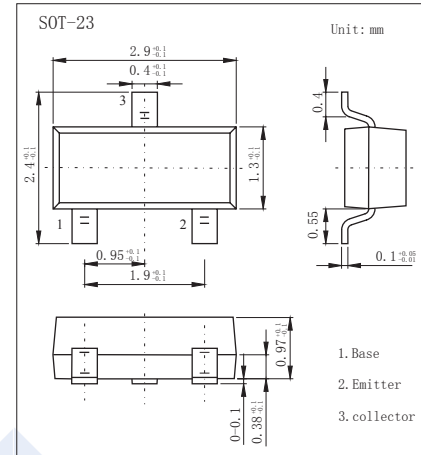


## NPN Transistors

### 2SC3361

#### ■ Features

- Fast switching speed.
- High breakdown voltage.
- Complementary to 2SA1331



#### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V <sub>CB0</sub>	60	V
Collector - Emitter Voltage	V <sub>CEO</sub>	50	
Emitter - Base Voltage	V <sub>EB0</sub>	5	
Collector Current - Continuous	I <sub>C</sub>	150	mA
Collector Current - Pulse	I <sub>CP</sub>	400	
Collector Power Dissipation	P <sub>C</sub>	150	mW
Junction Temperature	T <sub>J</sub>	125	°C
Storage Temperature Range	T <sub>stg</sub>	-55 to 125	

#### ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V <sub>CB0</sub>	I <sub>C</sub> = 100 μA, I <sub>E</sub> = 0	60			V
Collector- emitter breakdown voltage	V <sub>CEO</sub>	I <sub>C</sub> = 1 mA, R <sub>BE</sub> = ∞	50			
Emitter - base breakdown voltage	V <sub>EB0</sub>	I <sub>E</sub> = 100 μA, I <sub>C</sub> = 0	5			
Collector- base cut-off current	I <sub>CB0</sub>	V <sub>CB</sub> = 40 V, I <sub>E</sub> = 0			0.1	μA
Emitter cut-off current	I <sub>EB0</sub>	V <sub>EB</sub> = 4V, I <sub>C</sub> =0			0.1	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =10mA, I <sub>B</sub> =1mA		0.1	0.4	V
Base - emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =10mA, I <sub>B</sub> =1mA		0.75	1.1	
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> = 6V, I <sub>C</sub> = 1mA	90		400	
Delay time	t <sub>d</sub>	See specified Test Circuit		40		ns
Rise time	t <sub>r</sub>			80		
Storage time	t <sub>s</sub>			230		
Fall time	t <sub>f</sub>			160		
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> = 6V, f=1MHz		2.7		pF
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> = 6V, I <sub>C</sub> = 1mA		100		MHz

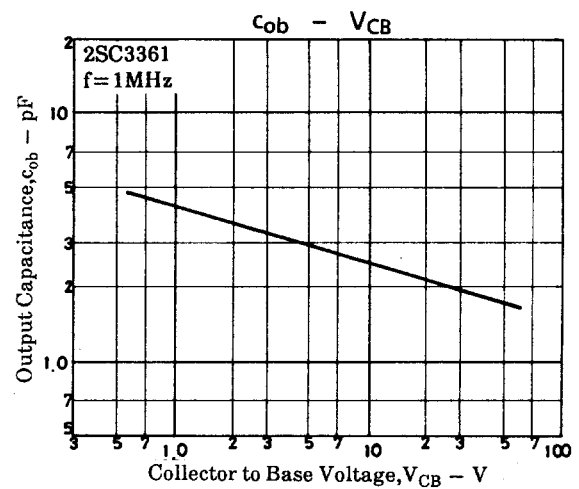
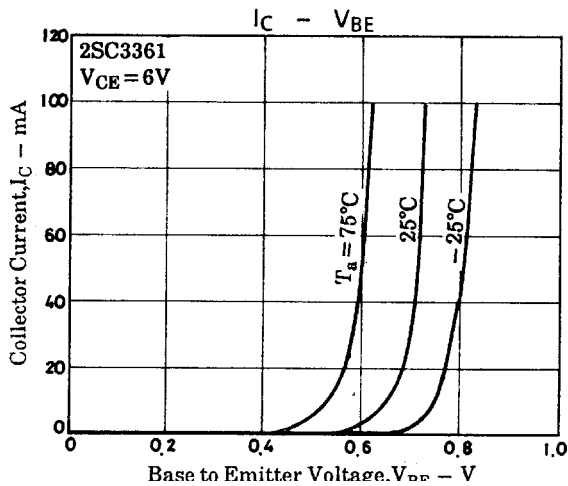
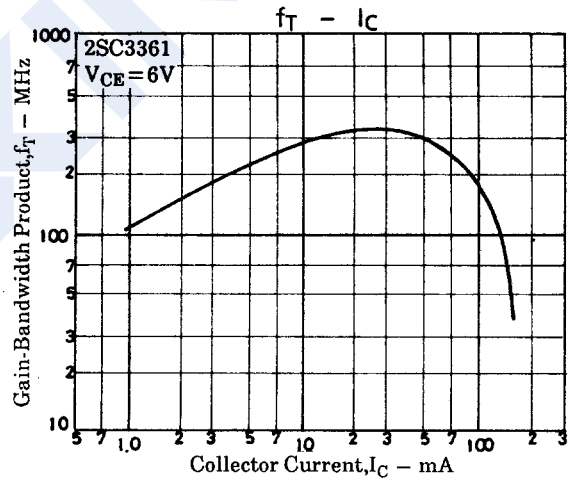
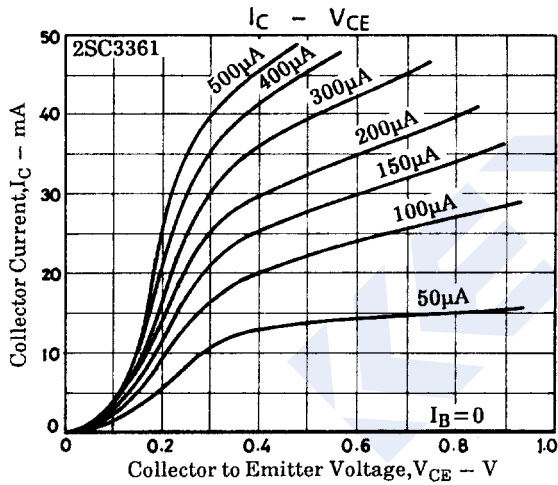
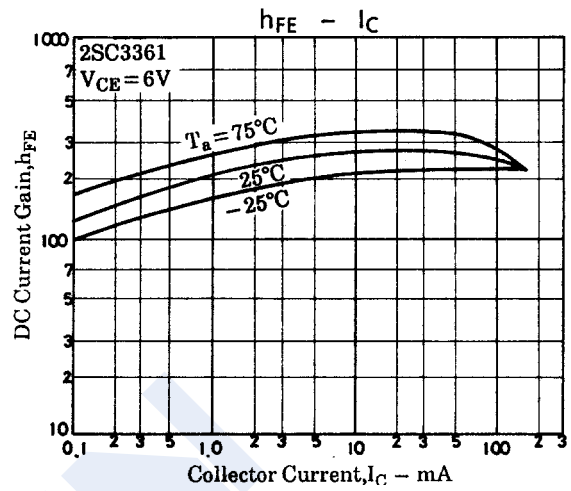
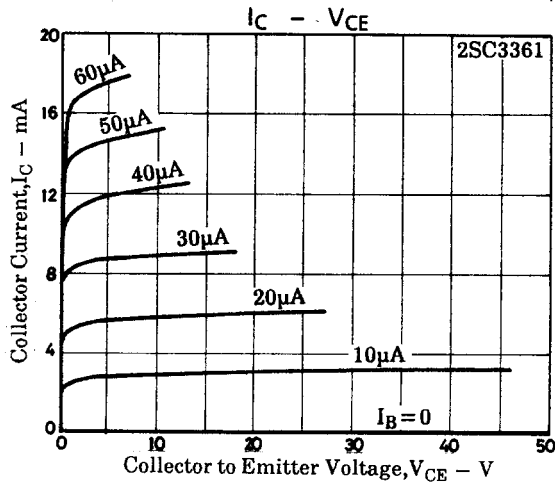
#### ■ Classification of h<sub>FE</sub>

Type	2SC3361-S4	2SC3361-S5	2SC3361-S6
Range	90-180	135-270	200-400
Marking	S4	S5	S6

### NPN Transistors

### 2SC3361

■ Typical Characteristics



## NPN Transistors

## 2SC3361

## ■ Typical Characteristics

