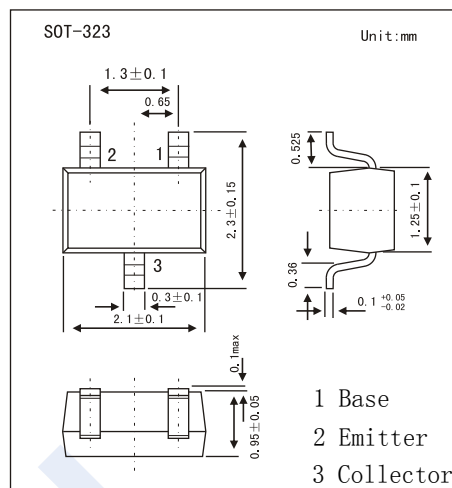


## NPN Transistors

## 2SC4555

## ■ Features

- Low collector-to-emitter saturation voltage.
- Complementary to 2SA1745



## ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V <sub>CB0</sub>	20	V
Collector - Emitter Voltage	V <sub>CE0</sub>	15	
Emitter - Base Voltage	V <sub>EB0</sub>	5	
Collector Current - Continuous	I <sub>C</sub>	500	mA
Collector Current - Pulse	I <sub>CP</sub>	1000	
Collector Power Dissipation	P <sub>C</sub>	150	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	-55 to 150	

## ■ 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	20			V
Collector- emitter breakdown voltage	V <sub>CE0</sub>	I <sub>C</sub> = 1 mA, I <sub>B</sub> = 0	15			
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> = 15V, 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)1</sub>	I <sub>C</sub> =5mA, I <sub>B</sub> =0.5mA		15	30	mV
	V <sub>CE(sat)2</sub>	I <sub>C</sub> =200mA, I <sub>B</sub> =10mA		160	300	
Base - emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =200mA, I <sub>B</sub> =10mA			1.2	V
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> = 2V, I <sub>C</sub> = 10mA	135		600	
		V <sub>CE</sub> = 2V, I <sub>C</sub> =400mA	80			
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> = 10V, f=1MHz		4		pF
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> = 2V, I <sub>C</sub> =50mA		300		MHz

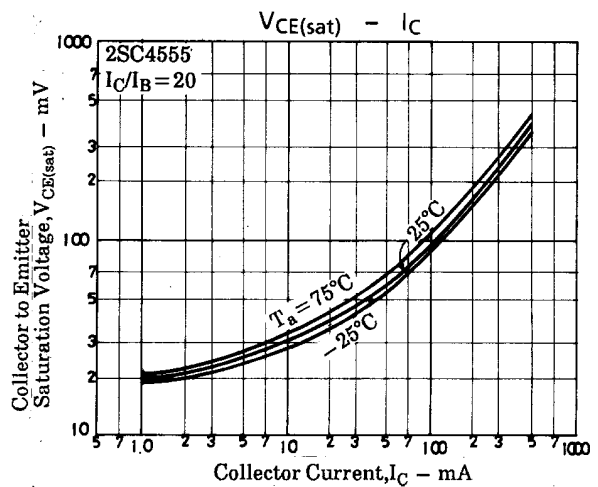
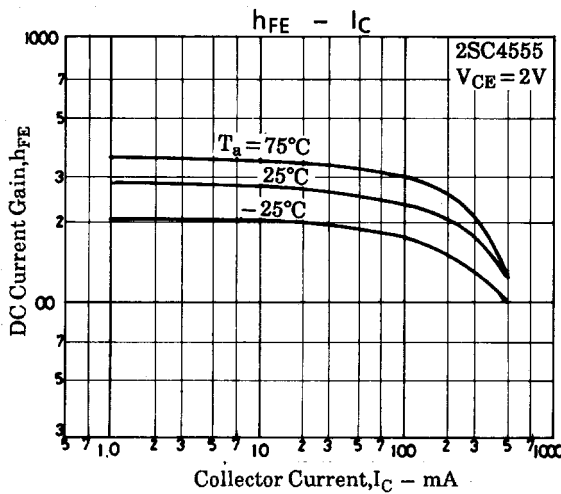
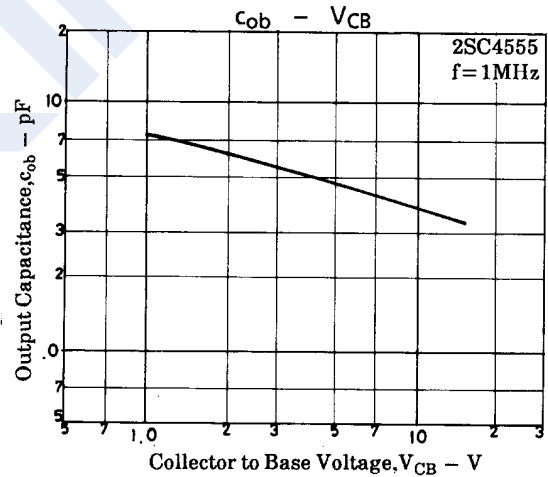
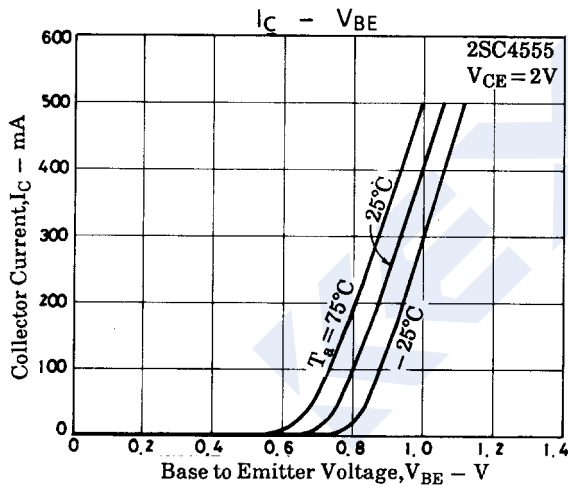
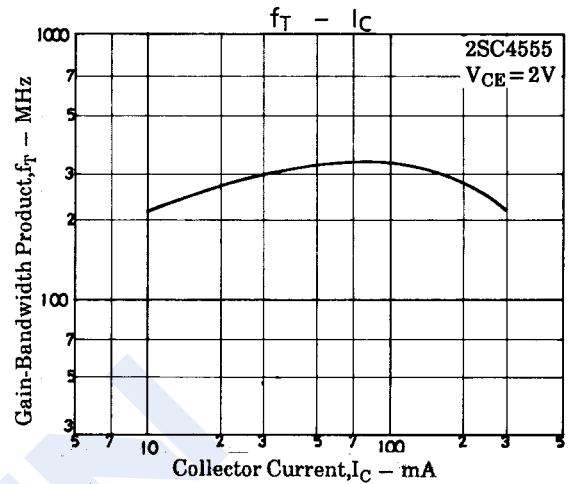
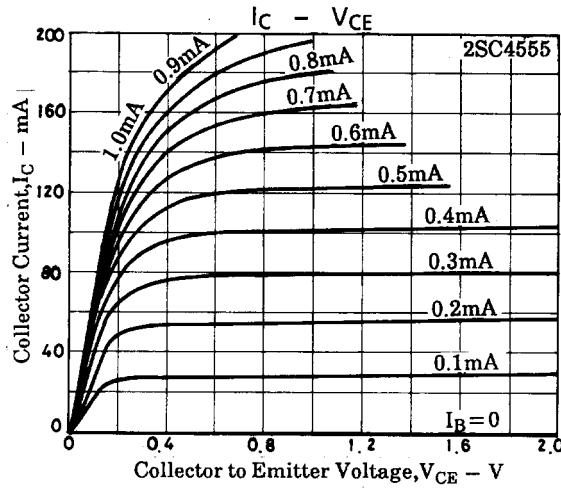
■ Classification of h<sub>FE</sub>(1)

Type	2SC4555-UT5	2SC4555-UT6	2SC4555-UT7
Range	130-270	200-400	300-600
Marking	UT5	UT6	UT7

### NPN Transistors

### 2SC4555

■ Typical Characteristics



## NPN Transistors

## 2SC4555

## ■ Typical Characteristics

