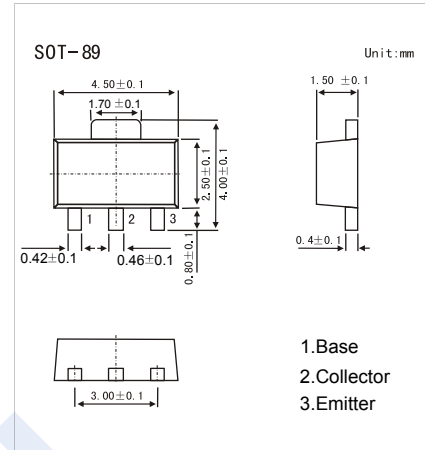


## NPN Transistors

### CXT5551 (KXT5551)

#### ■ Features

- High current (max. 600mA).
- Low voltage (max. 160 V).
- Complementary to CXT5401



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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V <sub>CB0</sub>	180	V
Collector - Emitter Voltage	V <sub>CE0</sub>	160	
Emitter - Base Voltage	V <sub>EB0</sub>	6	
Collector Current - Continuous	I <sub>c</sub>	600	mA
Collector Power Dissipation	P <sub>c</sub>	500	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	180			V
Collector- emitter breakdown voltage	V <sub>CE0</sub>	I <sub>c</sub> =1 mA, I <sub>B</sub> = 0	160			
Emitter - base breakdown voltage	V <sub>EB0</sub>	I <sub>E</sub> = 100 μA, I <sub>c</sub> = 0	6			
Collector-base cut-off current	I <sub>CB0</sub>	V <sub>CB</sub> = 120 V, I <sub>E</sub> = 0			50	nA
Emitter cut-off current	I <sub>EB0</sub>	V <sub>EB</sub> = 5V, I <sub>c</sub> =0			50	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>c</sub> =10 mA, I <sub>B</sub> =1mA			0.15	V
		I <sub>c</sub> =50 mA, I <sub>B</sub> =5mA			0.2	
Base - emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>c</sub> =10 mA, I <sub>B</sub> =1mA			1	
		I <sub>c</sub> =50 mA, I <sub>B</sub> =5mA			1	
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> = 5V, I <sub>c</sub> = 1mA	80			
		V <sub>CE</sub> = 5V, I <sub>c</sub> = 10mA	80		300	
		V <sub>CE</sub> = 5V, I <sub>c</sub> = 50mA	30			
Noise figure	NF	V <sub>CE</sub> =5V, I <sub>c</sub> =0.2mA, f=10Hz to 15.7KHZ, R <sub>s</sub> =10Ω			8	dB
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> = 10V, I <sub>E</sub> =0, f=1MHz			6	pF
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> = 10V, I <sub>c</sub> = 10mA, f=100MHz	100			MHz

#### ■ Marking

Marking	5551
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# NPN Transistors

## CXT5551 (KXT5551)

### Typical Characteristics

