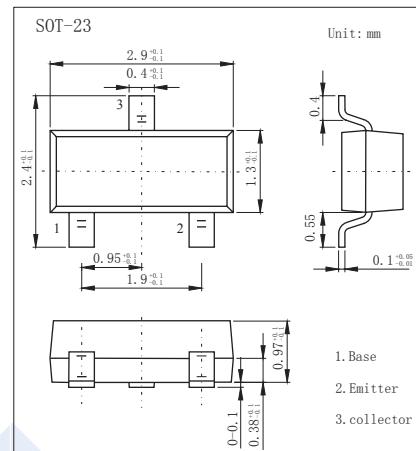


**NPN Transistors****2SC3440****■ Features**

- Low collector to emitter saturation voltage.
- Excellent linearity of DC forward current gain.
- Super mini package for easy mounting.
- High collector current.
- Complementary to 2SA1365

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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V <sub>CBO</sub>	25	V
Collector - Emitter Voltage	V <sub>C EO</sub>	20	
Emitter - Base Voltage	V <sub>EBO</sub>	4	
Collector Current - Continuous	I <sub>c</sub>	700	mA
Peak Collector Current	I <sub>CM</sub>	1	A
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>CBO</sub>	I <sub>c</sub> = 100 μA, I <sub>E</sub> = 0	25			V
Collector-emitter breakdown voltage	V <sub>C EO</sub>	I <sub>c</sub> = 100 uA, R <sub>BE</sub> = ∞	20			
Emitter-base breakdown voltage	V <sub>EBO</sub>	I <sub>E</sub> = 100 uA, I <sub>c</sub> = 0	4			
Collector-base cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> = 25 V, I <sub>E</sub> = 0			1	uA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> = 4V, I <sub>c</sub> =0			1	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>c</sub> =500 mA, I <sub>B</sub> =25mA		0.2	0.5	V
Base-emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>c</sub> =500 mA, I <sub>B</sub> =25mA			1.2	
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> = 4V, I <sub>c</sub> = 100mA	150		800	
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> = 6V, I <sub>c</sub> = 10mA		180		MHz

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

Type	2SC3340-E	2SC3340-F	2SC3340-G
Range	150-300	250-500	400-800
Marking	BE	BF	BG

## NPN Transistors

2SC3440

## ■ Typical Characteristics

