



## SOT-23 Plastic-Encapsulate Transistors

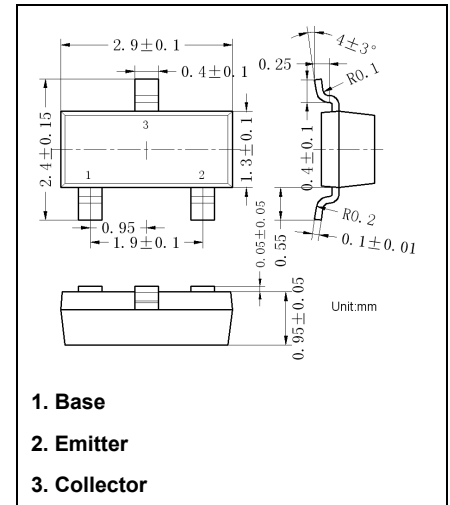
### SS8050

NPN Transistors

#### Features

- Complimentary to SS8550

Marking: Y1



#### Maximum Ratings (T<sub>a</sub>=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V <sub>CBO</sub>	Collector Base Voltage	40	V
V <sub>CEO</sub>	Collector Emitter Voltage	25	V
V <sub>EBO</sub>	Emitter Base Voltage	5	V
I <sub>c</sub>	Collector Current	1.5	A
P <sub>c</sub>	Collector Power Dissipation	300	mW
R <sub>θJA</sub>	Thermal Resistance From Junction To Ambient	417	°C/W
T <sub>j</sub>	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature	-55 ~ +150	°C

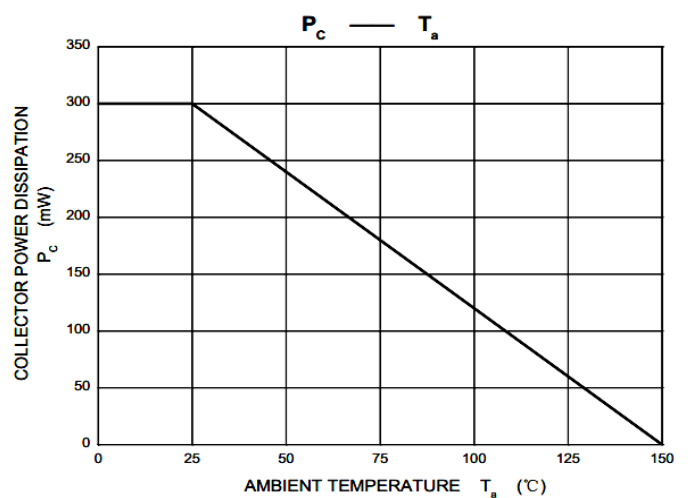
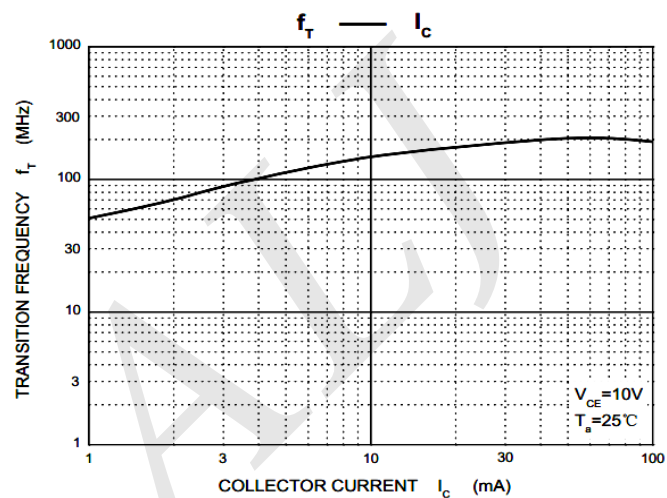
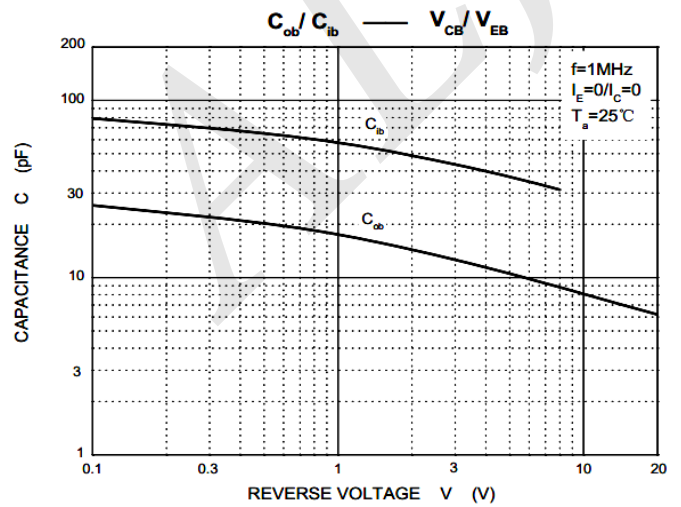
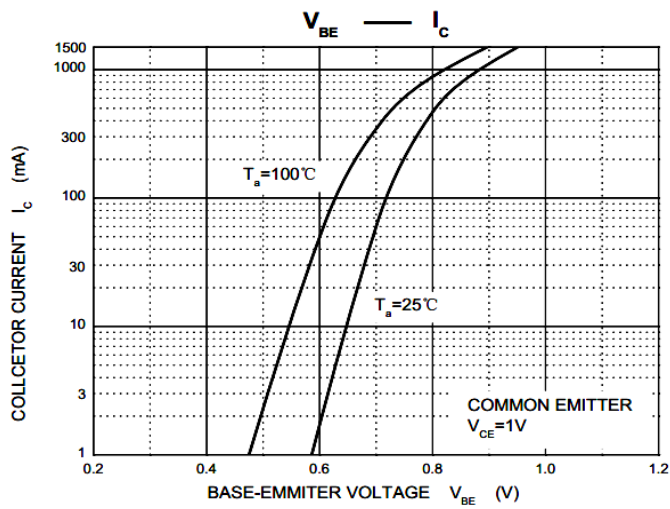
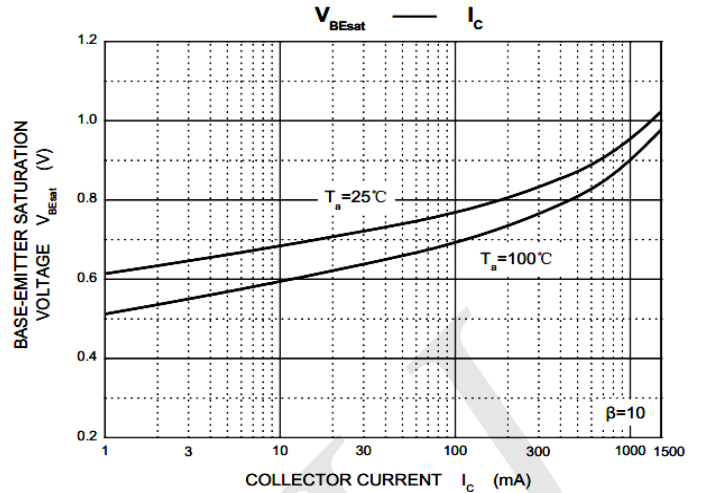
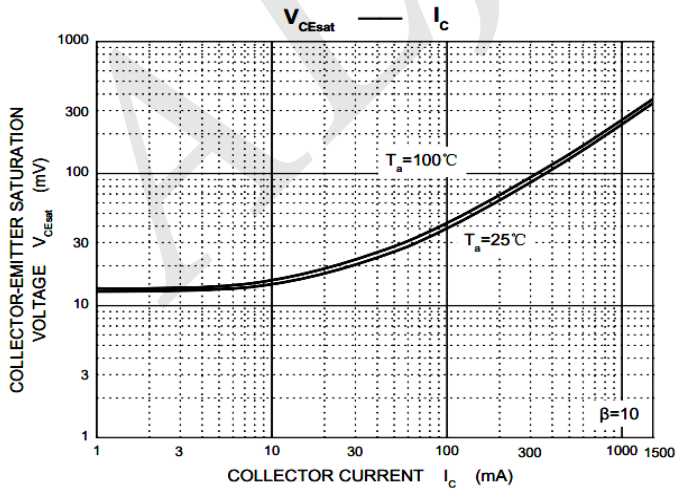
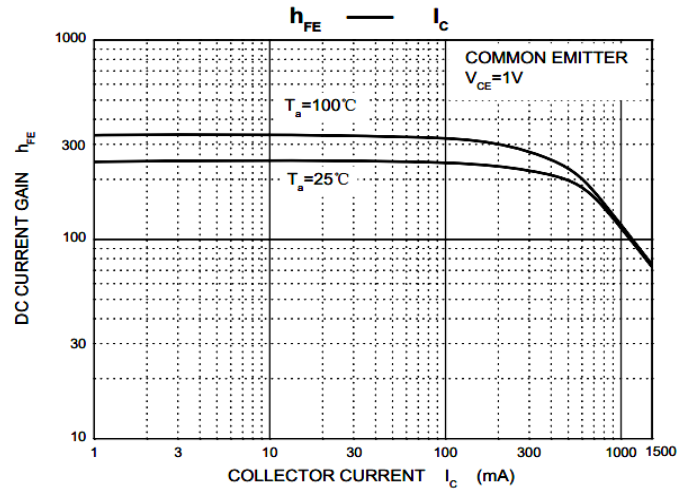
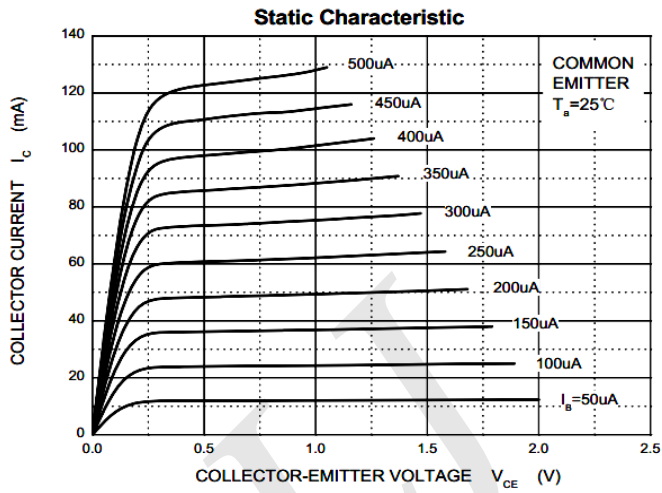
#### Electrical Characteristics (T<sub>a</sub>=25°C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V <sub>(BR)CBO</sub>	Collector-base breakdown voltage	I <sub>c</sub> = 100μA, I <sub>E</sub> = 0	40			V
V <sub>(BR)CEO</sub>	Collector-emitter breakdown voltage	I <sub>c</sub> = 0.1mA, I <sub>B</sub> = 0	25			V
V <sub>(BR)EBO</sub>	Emitter-base breakdown voltage	I <sub>E</sub> = 100μA, I <sub>c</sub> = 0	5			V
I <sub>cBO</sub>	Collector cut-off current	V <sub>CB</sub> = 40V, I <sub>E</sub> = 0			100	nA
I <sub>CEO</sub>	Collector cut-off current	V <sub>CE</sub> = 20V, I <sub>B</sub> = 0			100	nA
I <sub>EBO</sub>	Emitter cut-off current	V <sub>EB</sub> = 5V, I <sub>c</sub> = 0			100	nA
h <sub>FE(1)</sub>	DC current gain	V <sub>CE</sub> = 5V, I <sub>c</sub> = 1mA	100			
h <sub>FE(2)</sub>		V <sub>CE</sub> = 1V, I <sub>c</sub> = 100mA	100		350	
h <sub>FE(3)</sub>		V <sub>CE</sub> = 1V, I <sub>c</sub> = 800mA	40			
V <sub>CE(sat)</sub>	Collector-emitter saturation voltage	I <sub>c</sub> = 800mA, I <sub>B</sub> = 80mA			0.5	V
V <sub>BE(sat)</sub>	Base-emitter saturation voltage	I <sub>c</sub> = 800mA, I <sub>B</sub> = 80mA			1.2	V
f <sub>t</sub>	Transition frequency	V <sub>CE</sub> =10V, I <sub>c</sub> =50mA, f=30MHz	100			MHz

#### Classification OF h<sub>FE(1)</sub>

Rank	L	H
Range	100-200	200-350

# Typical Characteristics



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