

## DESCRIPTION

SS8550 is PNP Silicon Epitaxial Planar Transistor, for switching and amplifier applications. Especially suitable for AF-driver stages and low power output stages.

As complementary type of NPN transistor.

The SS8550 is available in SOT-23 package.

### ORDERING INFORMATION

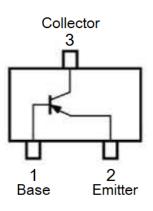
Package Type	Part Number			
SOT-23	SS8550			
Package	SPQ: 3,000pcs/Reel			
AiT provides all RoHS Compliant Products				

## FEATURES

• Available in SOT-23 package

3 SOT-23

**PIN DESCRIPTION** 





## ABSOLUTE MAXIMUM RATINGS

#### T<sub>A</sub> = 25°C

-V <sub>CBO</sub> , Collector Base Voltage	40V
-V <sub>CEO</sub> , Collector Emitter Voltage	25V
-V <sub>EBO</sub> , Emitter Base Voltage	6V
-Ic, Collector Current	1.5A
Ptot, Power Dissipation	350mW
T <sub>J</sub> , Junction Temperature	150°C
Ts, Storage Temperature Range	-55℃ ~ 150℃

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

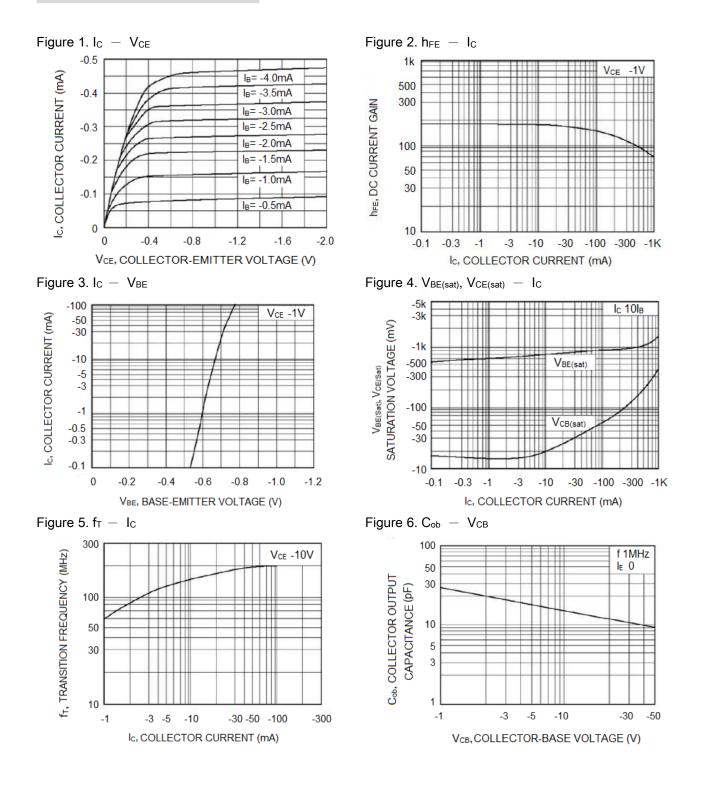
## ELECTRICAL CHARACTERISTICS

#### T<sub>A</sub> = 25°C

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
DC Current Gain	hfe	-V <sub>CE</sub> = 1V, -I <sub>C</sub> = 100mA	200	-	350	-
		-V <sub>CE</sub> = 1V, -I <sub>C</sub> = 800mA				
Collector Base Cutoff Current	-Ісво	-V <sub>CB</sub> = 35V	-	-	100	nA
Emitter Base Cutoff Current	-I <sub>EBO</sub>	-V <sub>EB</sub> = 6V	-	-	100	nA
Collector Base Breakdown Voltage	-V <sub>(BR)CBO</sub>	-I <sub>C</sub> = 100µA	40	-	-	V
Collector Emitter Breakdown Voltage	-V <sub>(BR)CEO</sub>	-I <sub>C</sub> = 2mA	25	-	-	V
Emitter Base Breakdown Voltage	-V <sub>(BR)EBO</sub>	-I <sub>E</sub> = 100μΑ	6	-	-	V
Collector Emitter Saturation Voltage	-V <sub>CE(sat)</sub>	-I <sub>C</sub> = 800mA , -I <sub>B</sub> = 80mA	-	-	0.5	V
Base Emitter Saturation Voltage	-V <sub>BE(Sat)</sub>	-I <sub>C</sub> = 800mA , -I <sub>B</sub> = 80mA	-	-	1.2	V
Base Emitter Voltage	-V <sub>BE(on)</sub>	-V <sub>CE</sub> = 1V, -I <sub>C</sub> = 10mA	-	-	1	V
Gain Bandwidth Product	f⊤	-V <sub>CE</sub> = 10V, -I <sub>C</sub> = 50mA	120	-	-	MHz



#### TYPICAL CHARACTERISTICS



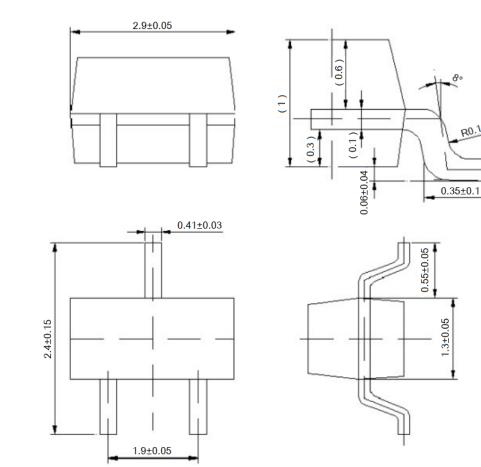


**----**0.13±0.03

R0.1

# PACKAGE INFORMATION

Dimension in SOT-23 Package (Unit: mm)





### IMPORTANT NOTICE

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