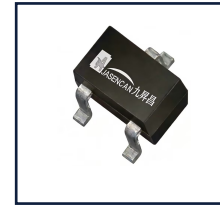
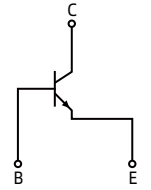


## Features

- Collector current  $I_C=0.5A$ .
- Power amplifier applications.
- Complementary to S8550



SOT23



Equivalent Circuit

## Absolute Maximum Ratings ( $T_A=25^\circ\text{C}$ )

Symbol	Parameter	Value	Unit
$V_{CBO}$	Collector-Base Voltage	40	V
$V_{CEO}$	Collector-Emitter Voltage	25	V
$V_{EBO}$	Emitter-Base Voltage	5	V
$I_C$	Collector Current	0.5	A
$P_C$	Collector Power Dissipation	300	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	400	$^\circ\text{C}/\text{W}$
$T_J, T_{stg}$	Operation Junction And Storage Temperature Range	-55 ~ +150	$^\circ\text{C}/\text{W}$

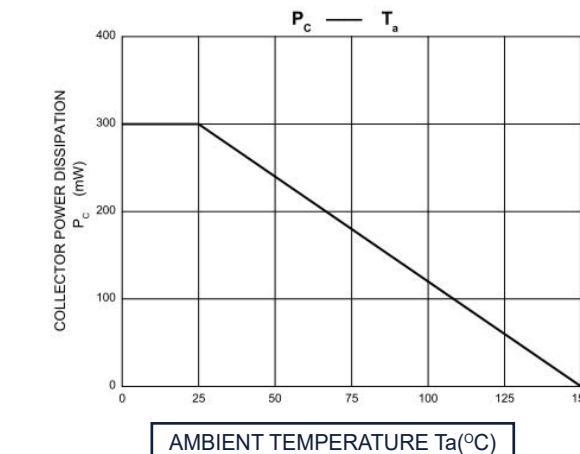
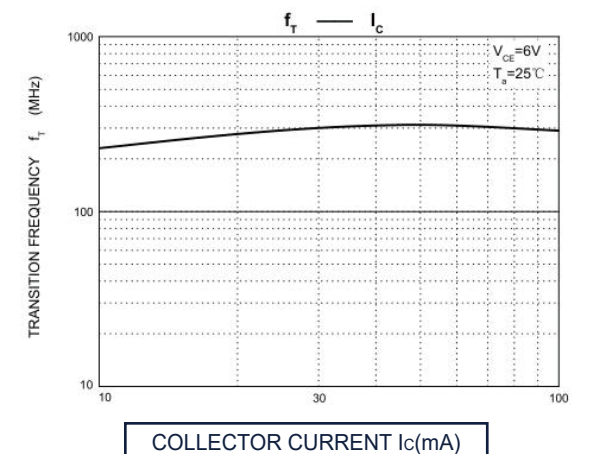
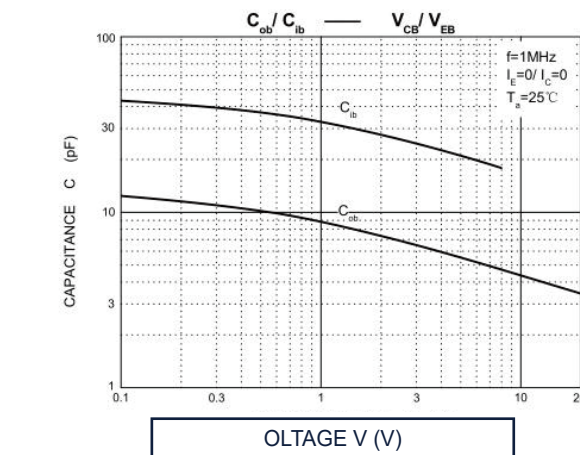
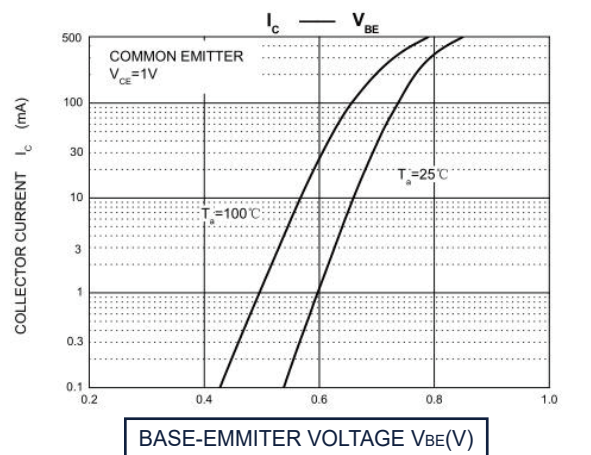
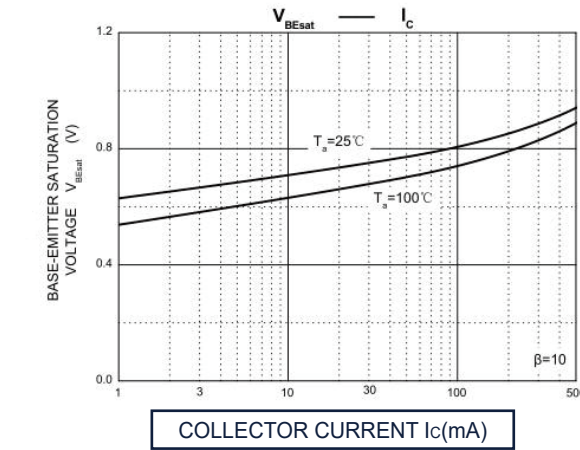
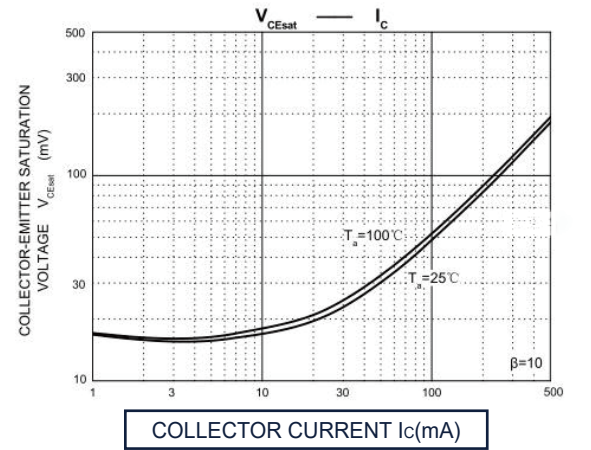
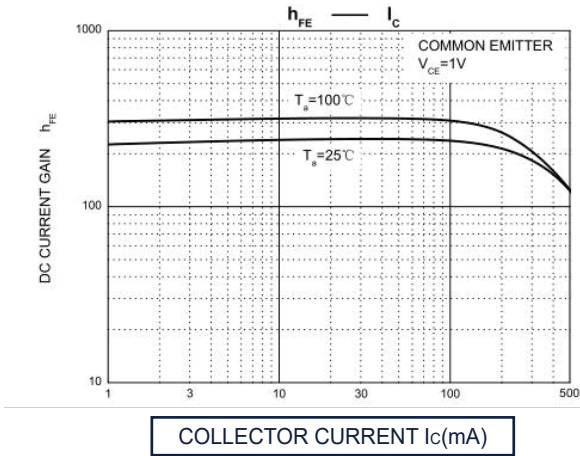
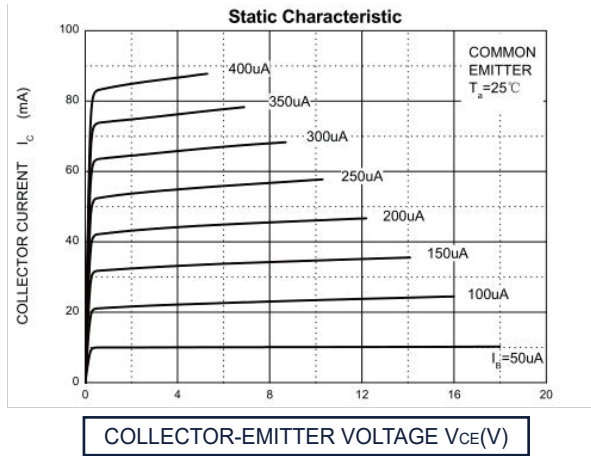
## Electrical Characteristics ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=100\mu\text{A}, I_E=0$	40			V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=0.1\text{mA}, I_B=0$	25			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=100\mu\text{A}, I_C=0$	5			V
$I_{CEO}$	Collector cut-off current	$V_{CE}=20\text{V}, I_E=0$			100	nA
$I_{CBO}$	Collector cut-off current	$V_{CB}=40\text{V}, I_E=0$			100	nA
$I_{EBO}$	Emitter cut-off current	$V_{EB}=5\text{V}, I_C=0$			100	nA
$h_{FE(1)}$	DC current gain(1)	$V_{CE}=1\text{V}, I_C=50\text{mA}$	200		350	
$h_{FE(2)}$	DC current gain(2)	$V_{CE}=1\text{V}, I_C=500\text{mA}$	50			
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=500\text{mA}, I_B=50\text{mA}$			0.6	V
$V_{BE(sat)}$	Base-emitter saturation voltage				1.2	V
$f_T$	Transition frequency	$V_{CE}=6\text{V}, I_C=20\text{mA}, f=30\text{MHz}$	150			MHz

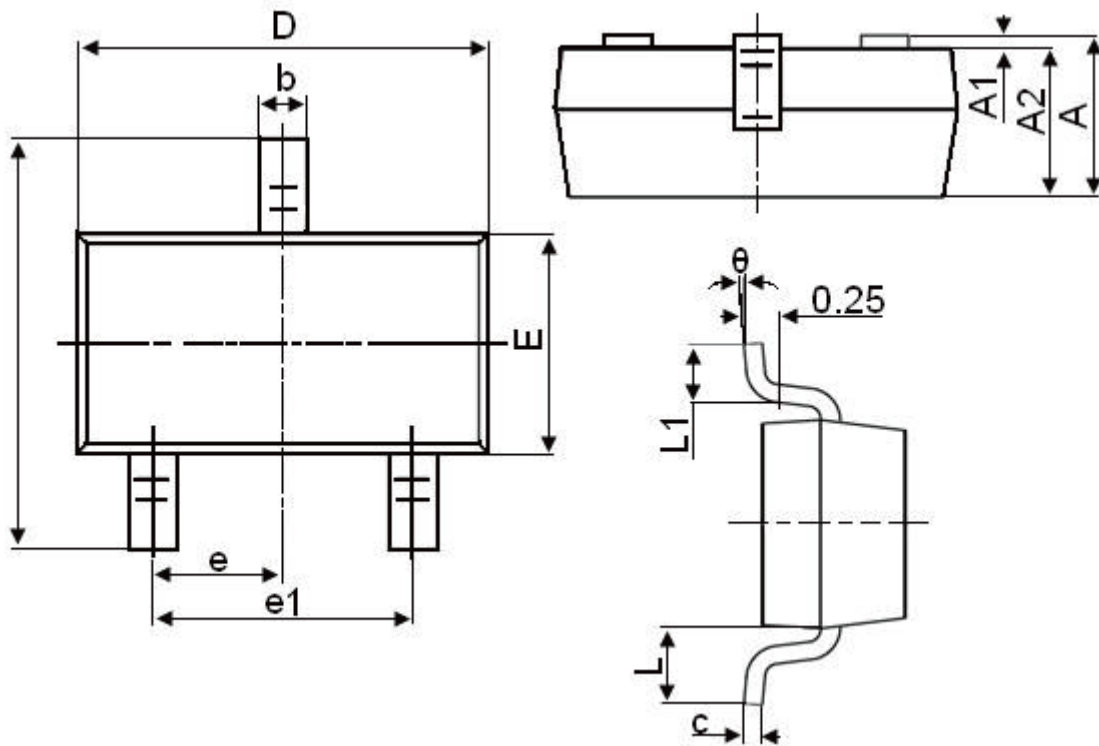
## Ordering information

Product ID	Pack	Naming rule	Marking	$h_{FE(1)}$	Qty(PCS)
S8050	SOT23	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>S8050</p> <p>↓</p> <p>产品名称 product name</p> </div>	J3Y	200 ~ 350	3000

## Typical Characteristics



## SOT23 Package Outline Dimensions



Symbol	Dimensions in Millimeters	
	mm	
	Min	Max
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950TYP	
e1	1.800	2.000
L	0.550REF	
L1	0.300	0.500
θ	0°	8°