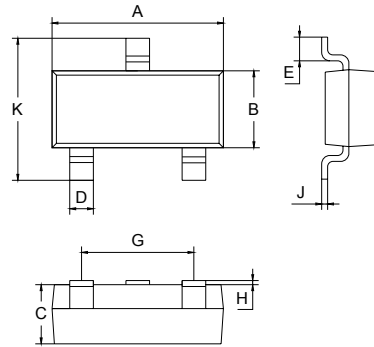


### FEATURES

- High Collector Current.( $I_C = -500\text{mA}$ ).
- Complementary To S8050.
- Excellent  $H_{FE}$  Linearity.

### APPLICATIONS

- High Collector Current.



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	1.0 Typical	
D	0.4 Typical	
E	0.35	0.48
G	1.80	2.00
H	0.02	0.1
J	0.1 Typical	
K	2.20	2.60
All Dimensions in mm		

### ORDERING INFORMATION

Type No.	Marking	Package Code
S8550	2TY	SOT-23

### MAXIMUM RATING @ $T_a = 25^\circ\text{C}$ unless otherwise specified

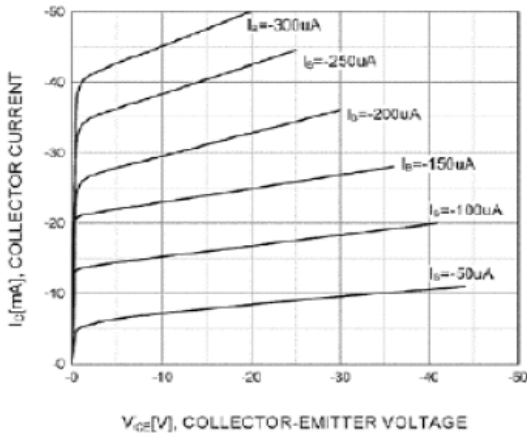
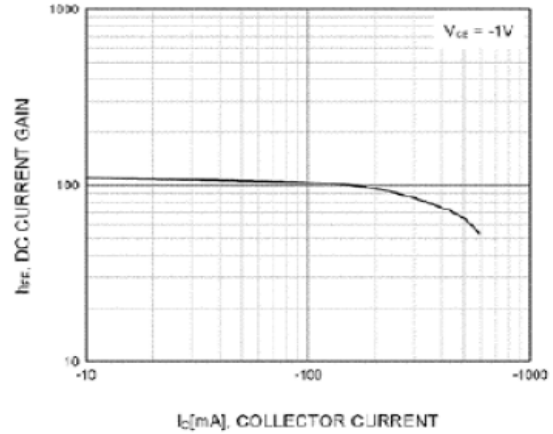
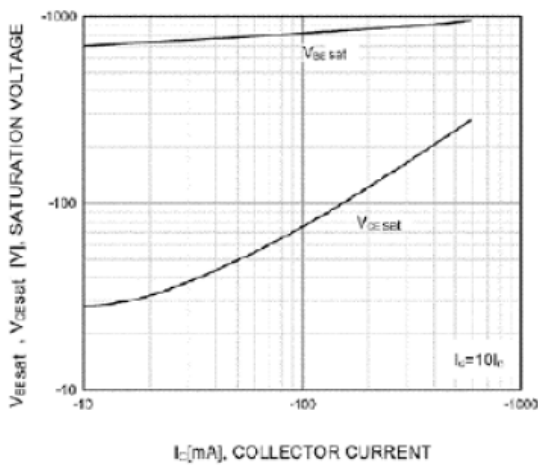
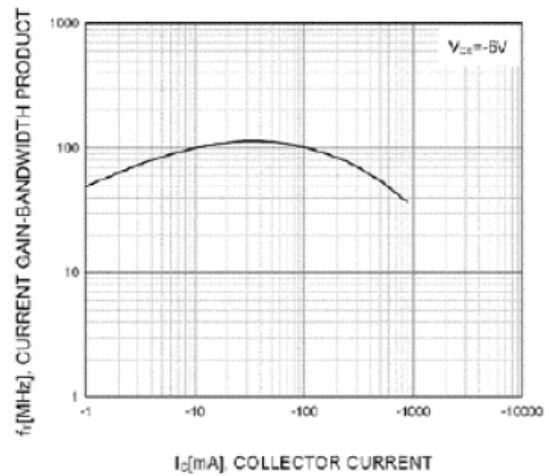
Symbol	Parameter	Value	Units
$V_{CBO}$	Collector-Base Voltage	-40	V
$V_{CEO}$	Collector-Emitter Voltage	-25	V
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current -Continuous	-500	mA
$P_C$	Collector Dissipation	300	mW
$T_j, T_{stg}$	Junction and Storage Temperature	-55 to +150	$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-100\mu A, I_E=0$	-40		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1mA, I_B=0$	-25		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-100\mu A, I_C=0$	-5		V
Collector cut-off current	$I_{CBO}$	$V_{CB}=-40V, I_E=0$		-0.1	$\mu A$
Collector cut-off current	$I_{CEO}$	$V_{CE}=-20V, I_B=0$		-0.1	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=-3V, I_C=0$		-0.1	$\mu A$
DC current gain	$h_{FE}$	$V_{CE}=-1V, I_C=-50mA$	120	350	
		$V_{CE}=-1V, I_C=-500mA$	50		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-500mA, I_B=-50mA$		-0.6	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=-500mA, I_B=-50mA$		-1.2	V
Transition frequency	$f_T$	$V_{CE}=-6V, I_C=-20mA$ $f=30MHz$	150		MHz

**CLASSIFICATION OF  $h_{FE(1)}$** 

Rank	L	H
Range	120-200	200-350

**TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**

**Static Characteristic**

**DC current Gain**

**Base-Emitter Saturation Voltage  
Collector-Emitter Saturation Voltage**

**Current Gain Bandwidth Product**

Device	Package	Shipping
S8550	SOT-23	3000/Tape&Reel

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