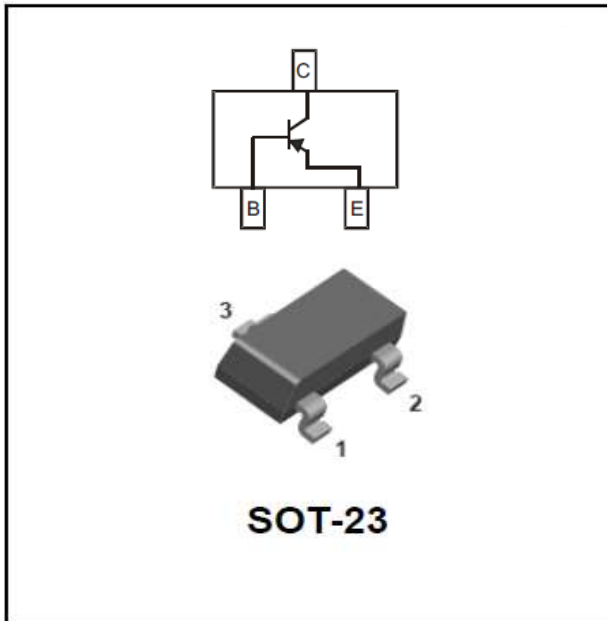


## PNP General Purpose Amplifier



### Features

- Epoxy meets UL-94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking:  
SS8550-L : Y2 • L  
SS8550-H: Y2



### ■ Off Characteristics

Item	Symbol	Unit	Conditions	Value
Collector-Emitter Voltage*	$V_{CE0}$	V	$I_C = -100\mu\text{A}$ , $I_B = 0$	25
Collector-Base Voltage	$V_{CB0}$	V	$I_C = -100\mu\text{A}$ , $I_E = 0$	40
Emitter-Base Voltage	$V_{EB0}$	V	$I_E = -100\mu\text{A}$ , $I_C = 0$	5.0
Collector Current	$I_C$	A		1.5
Collector Cutoff Current	$I_{CE0}$	nA	$V_{CE} = 20\text{Vdc}$	100
Collector Cutoff Current	$I_{CB0}$	nA	$V_{CB} = 40\text{Vdc}$	100
Collector Cutoff Current	$I_{EB0}$	nA	$V_{CE} = 5.0\text{Vdc}$	100
Power Dissipation	$P_D$	mW		300
Operation Junction Temperature	$T_J$	°C		-55 to +150
Storage Temperature	$T_{STG}$	°C		-55 to +150

**■ On Characteristics**

Item	Symbol	Unit	Conditions	Min	Max
DC Current Gain	$h_{FE}$		$I_C=-100mA$ $V_{CE}=-1.0Vdc$	120	350
			$I_C=-800mA$ $V_{CE}=-1.0Vdc$	40	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	Vdc	$I_C=-800mA$ $I_B=-80mA$		-0.5
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	Vdc	$I_C=-800mA$ $I_B=-80mA$		-1.2

**■ Small-signal Characteristics**

Item	Symbol	Unit	Conditions	Min	Max
Current Gain-Bandwidth Product	$f_T$	MHz	$I_C=-50mAdc$ , $V_{CE}=-10Vdc$ , $f=30MHz$	100	

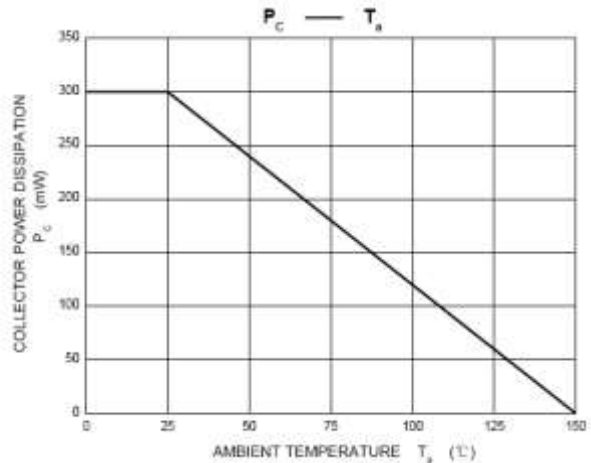
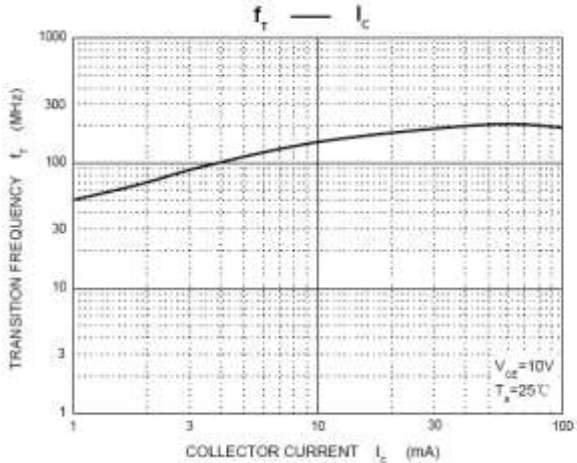
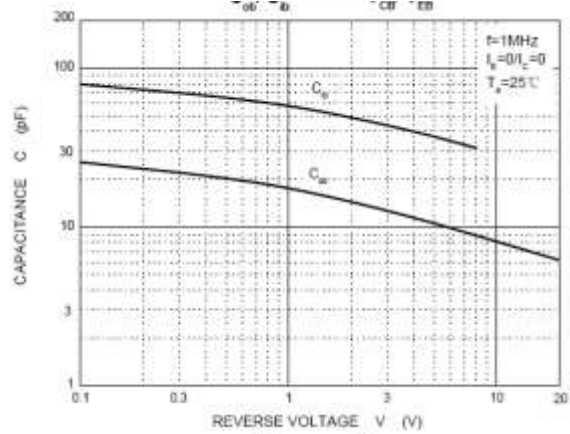
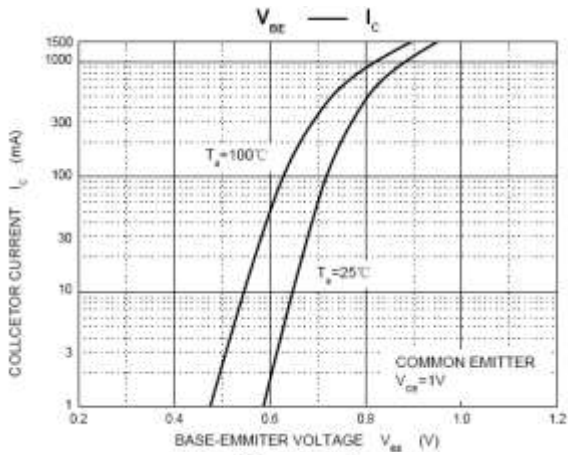
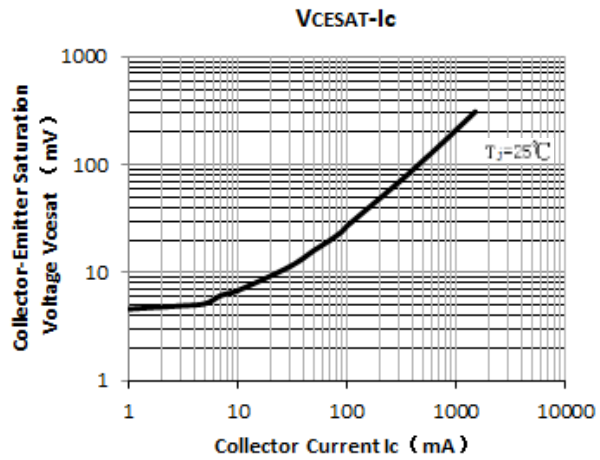
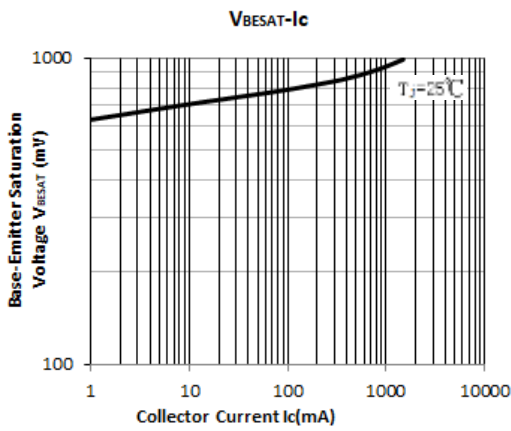
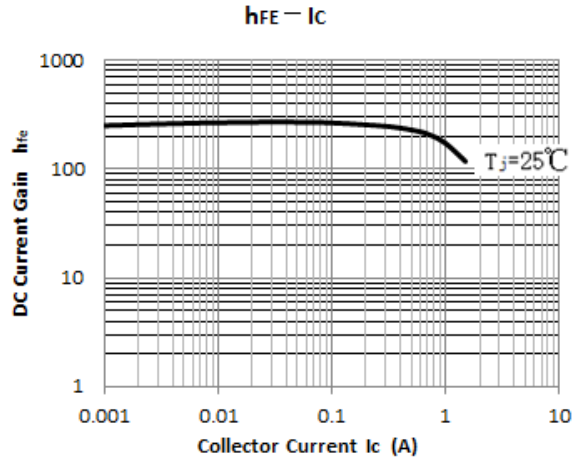
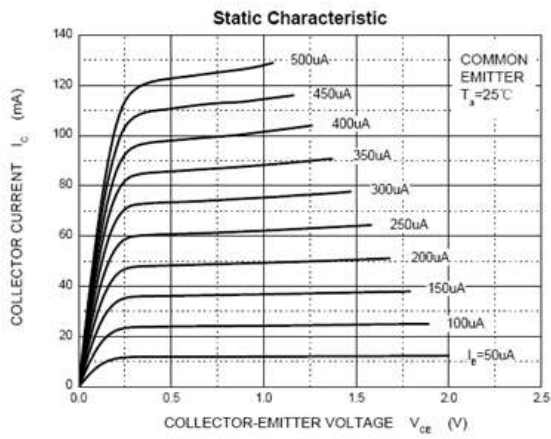
**■ CLASSIFICATION OF HFE (1)**

Rank	L	H
Range	120-200	200-350

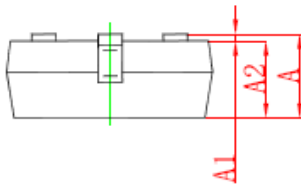
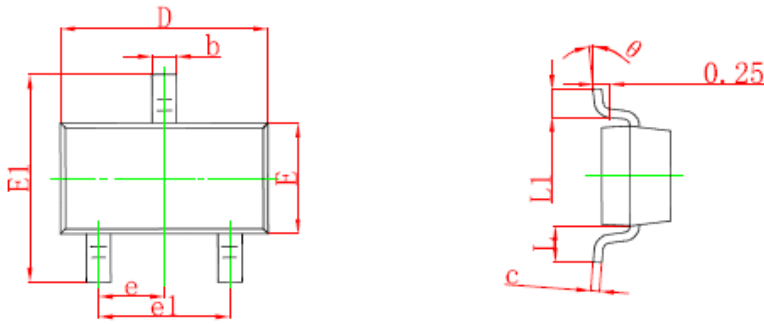
**■ Ordering Information (Example)**

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS8550	F2	Approximate 0.008	3000	30000	120000	7" reel

## Characteristics (Typical)

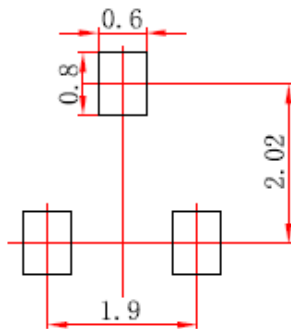


## ■SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP		0.037 TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

## ■SOT-23 Suggested Pad Layout



- Note:
1. Controlling dimension: In millimeters.
  2. General tolerance:  $\pm 0.05\text{mm}$ .
  3. The pad layout is for reference purposes only.

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