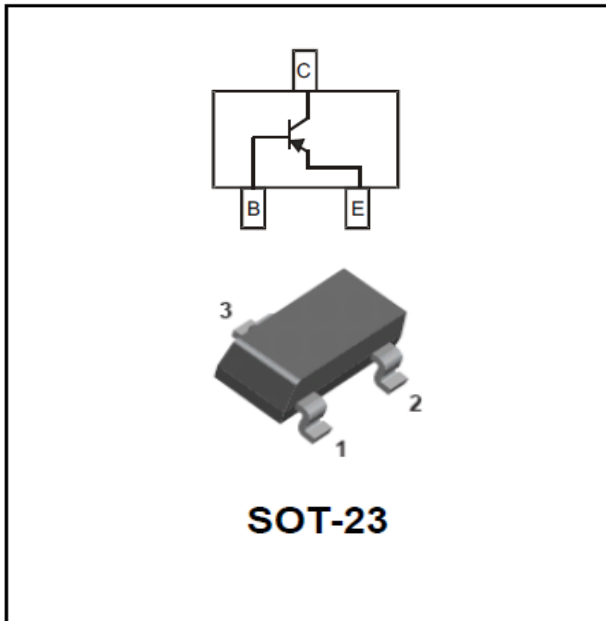


PNP General Purpose Amplifier



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_{CEO}	V	$I_C = -100\mu\text{A}$, $I_B = 0$	25
Collector-Base Voltage	V_{CBO}	V	$I_C = -100\mu\text{A}$, $I_E = 0$	40
Emitter-Base Voltage	V_{EBO}	V	$I_E = -100\mu\text{A}$, $I_C = 0$	5.0
Collector Current	I_C	A		1.5
Collector Cutoff Current	I_{CEO}	nA	$V_{CE} = 20\text{Vdc}$	100
Collector Cutoff Current	I_{CBO}	nA	$V_{CB} = 40\text{Vdc}$	100
Collector Cutoff Current	I_{EBO}	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



SS8550-L THRU SS8550-H

■ On Characteristics

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

■ Small-signal Characteristics

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

■ CLASSIFICATION OF HFE (1)

Rank	L	H
Range	120-200	200-350

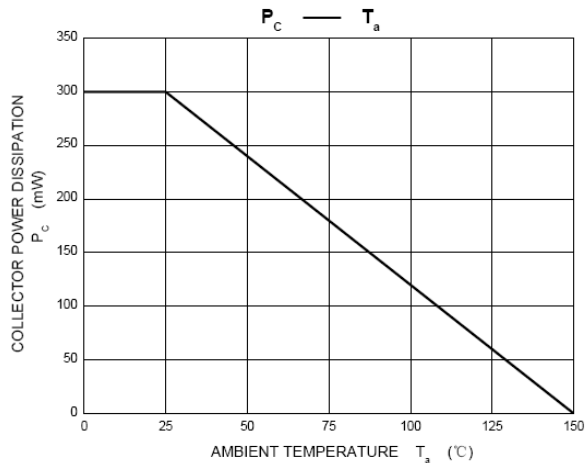
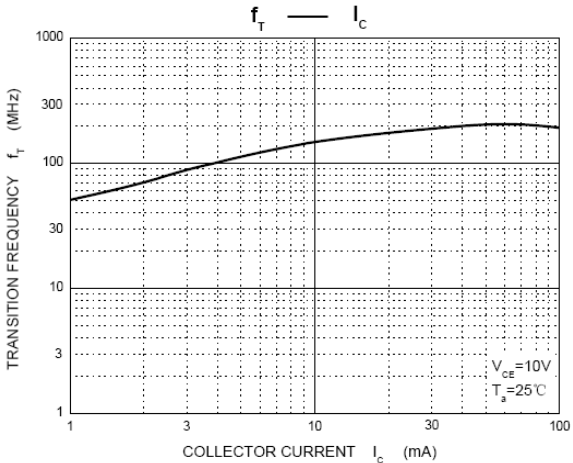
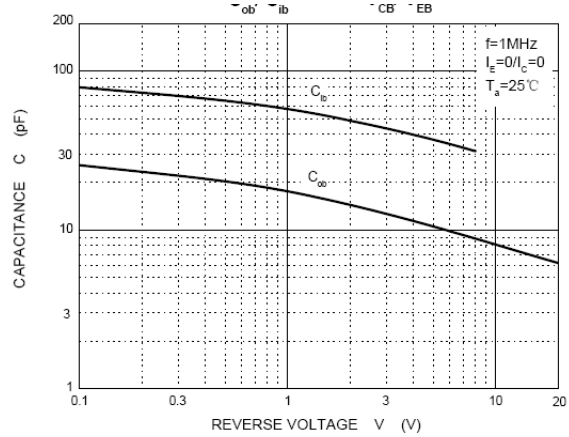
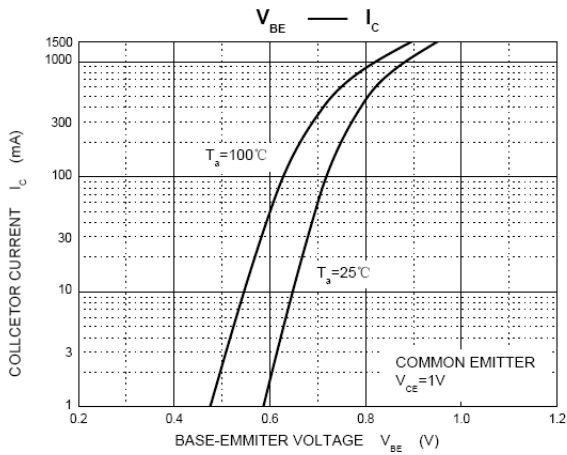
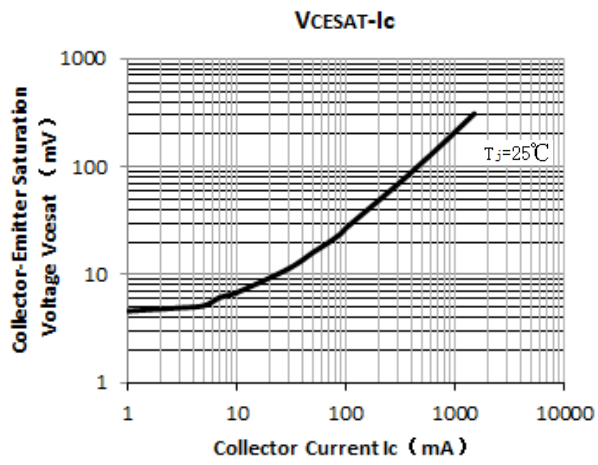
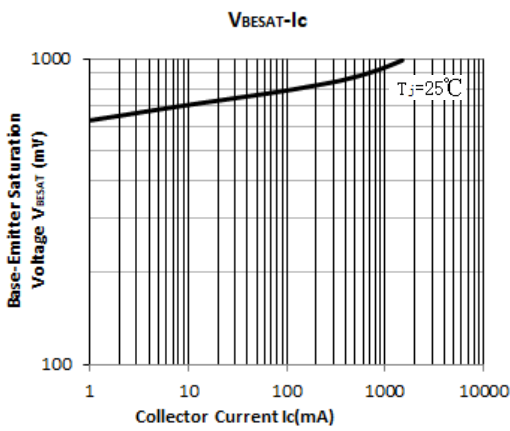
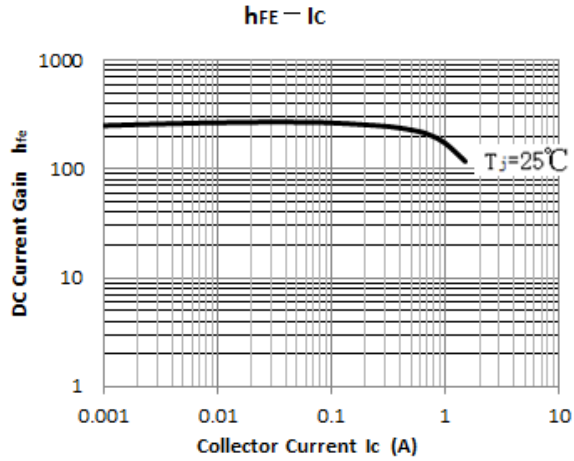
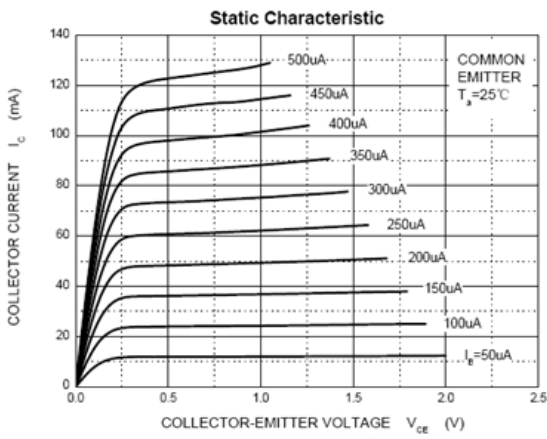
■ Ordering Information (Example)

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



SS8550-L THRU SS8550-H

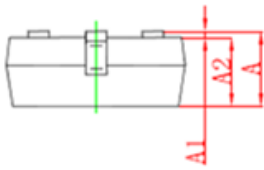
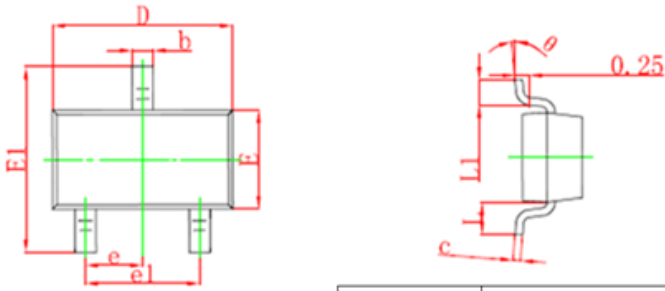
Characteristics (Typical)





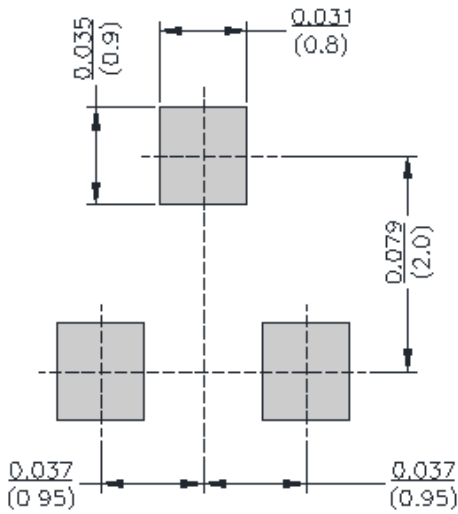
SS8550-L THRU SS8550-H

■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	0.100	0.200	0.004	0.008
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	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550REF		0.022REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

■SOT-23Suggested Pad Layout





SS8550-L THRU SS8550-H

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website [http:// www.21yangjie.com](http://www.21yangjie.com) , or consult your nearest Yangjie's sales office for further assistance.