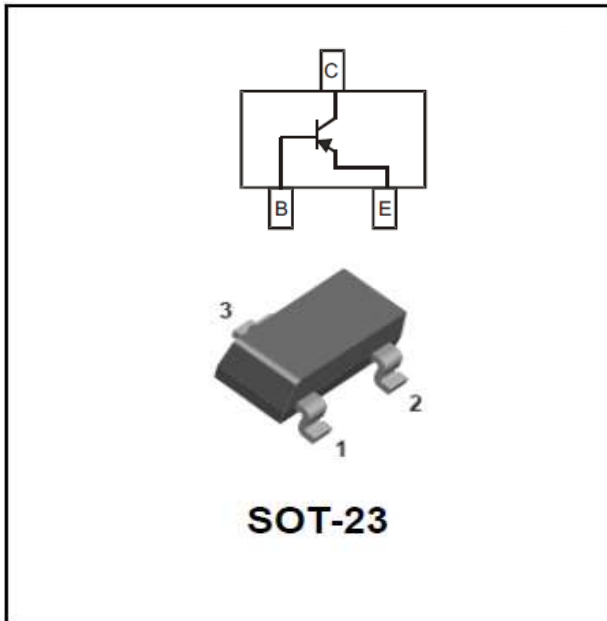


PNP General Purpose Amplifier



Features

- Epoxy meets UL-94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking:
 S8550-L : 2TY • L
 S8550-H : 2TY



■ Maximum Ratings (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	VCBO	V	I _C =-100uAdc, I _B =0	-40
Collector-Emitter Voltage	VCEO	V	I _C =-100uAdc, I _E =0	-25
Emitter-Base Voltage	VEBO	V	I _E =-100uAdc, I _C =0	-5
Collector Current -Continuous	IC	mA		-500
Total Device Dissipation	PD	mW		300
Junction Temperature	T _j	°C		150
Storage Temperature	TSTG	°C		-55 to +150

■ Electrical Characteristics (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Typ	Max
Collector-base breakdown voltage	V _{(BR)CBO}	V	I _C =-100uA, I _E =0	-40		
Collector-emitter breakdown voltage	V _{(BR)CEO*}	V	I _C =-100uA, I _B =0	-25		
Emitter-base breakdown voltage	V _{(BR)EBO}	V	I _E =-100uA, I _C =0	-5		
Collector cut-off current	I _{CEX}	nA	VCE=-20V, I _B =0			-100
Base cut-off current	I _{CBO}	nA	VCB=-40V, I _E =0			-100
Emitter cut-off current	I _{EBO}	nA	VEB=-5V, I _C =0			-100
DC current gain	h _{FE (1)}		VCE=-1V, I _C =-50mA	120		350
	h _{FE (2)}		VCE=-1V, I _C =-500mA	50		
Collector-emitter saturation voltage	V _{CE(sat)}	V	I _C =-500mA, I _B =-50mA			-0.6
Base-emitter saturation voltage	V _{BE(sat)}	V	I _C =-500mA, I _B =-50mA			-1.2
Transition frequency	f _T	MHz	VCE=-6V, I _C =-20mA, f=30MHz	150		

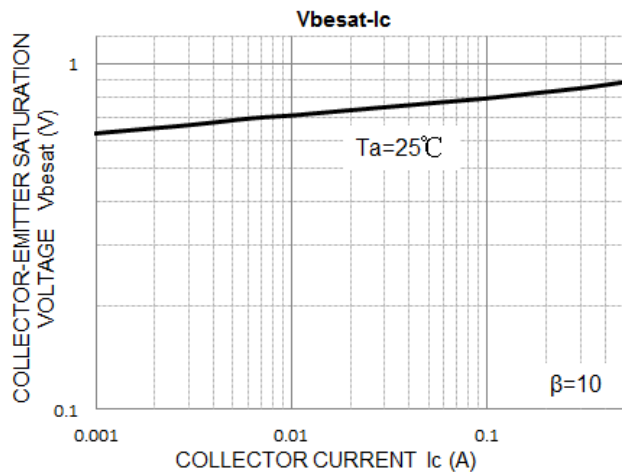
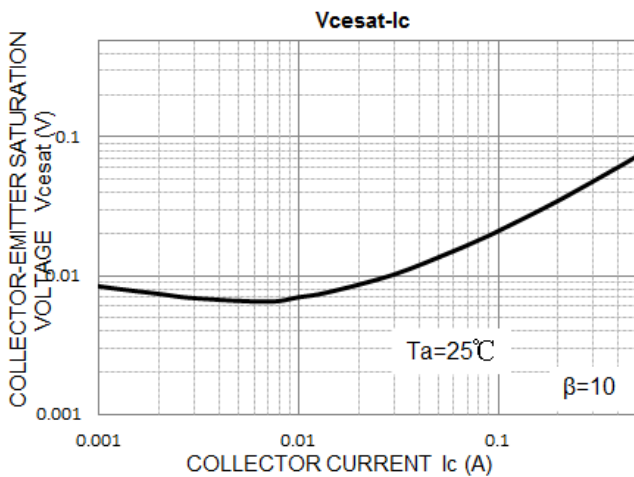
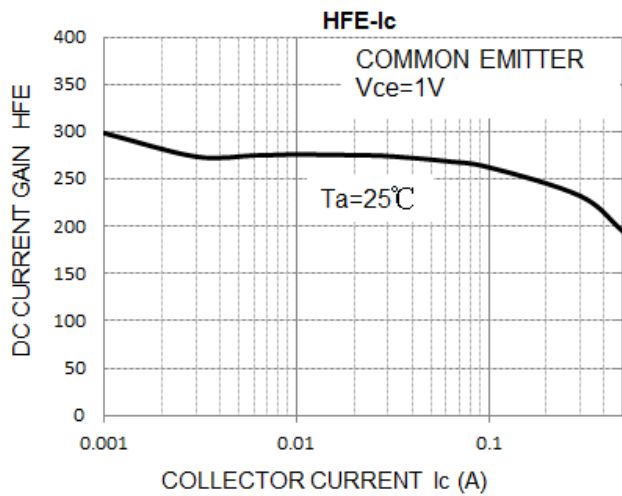
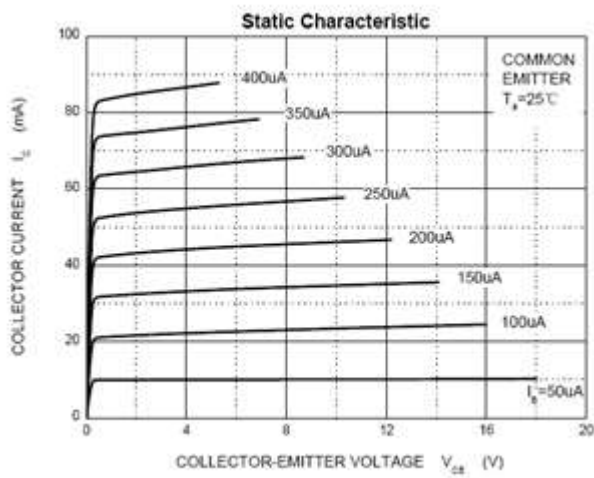
■ CLASSIFICATION OF HFE (1)

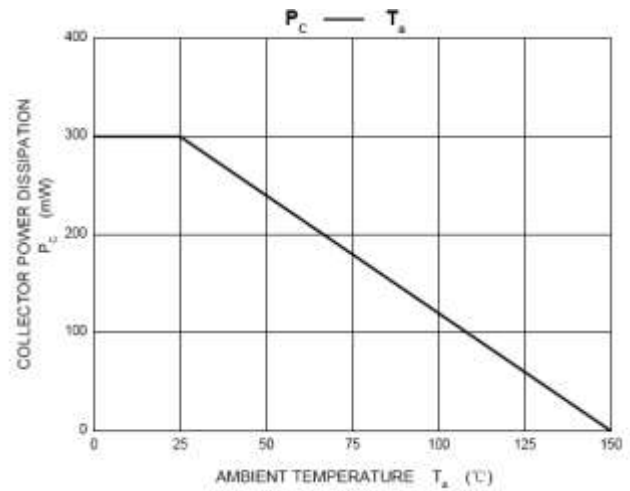
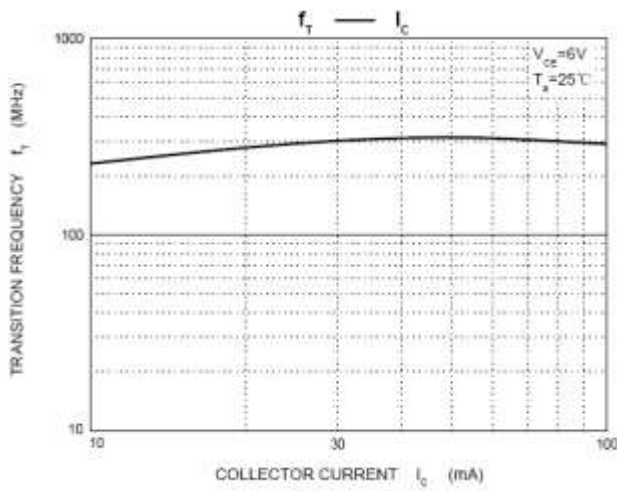
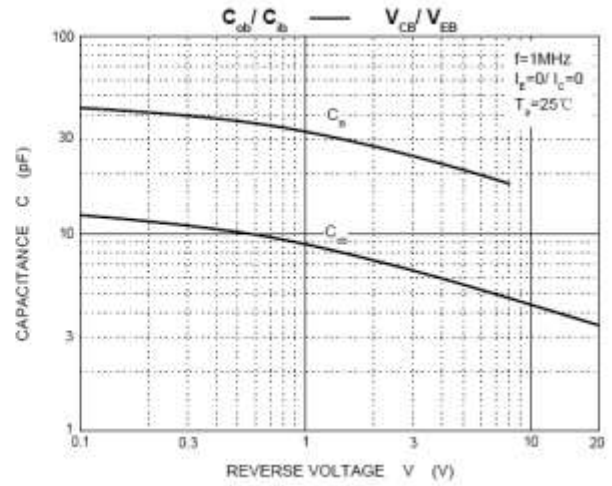
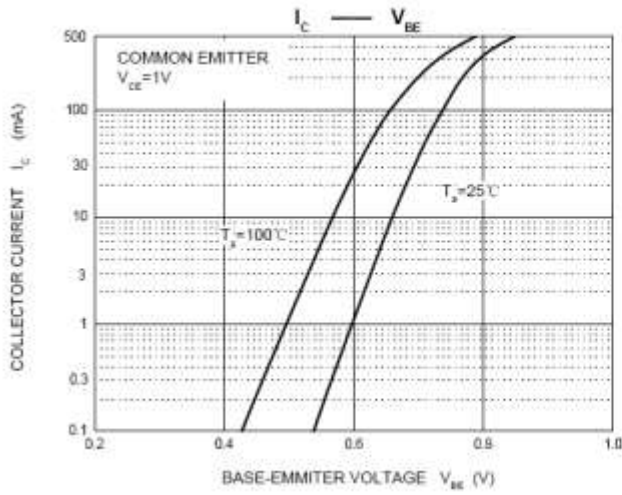
Rank	L	H
Range	120-200	200-350

■ Ordering Information (Example)

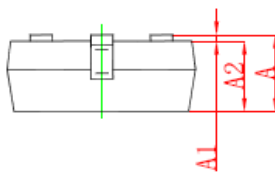
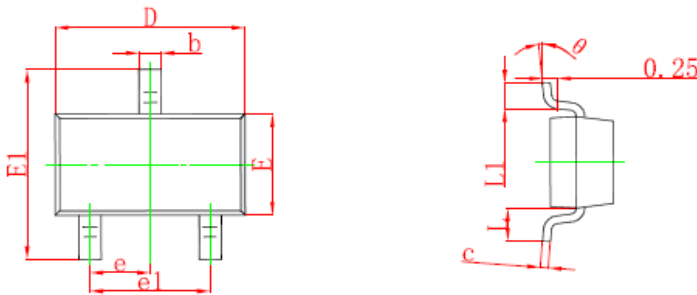
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
S8550	F2	Approximate 0.008	3000	30000	120000	7" reel

■ Characteristics (Typical)



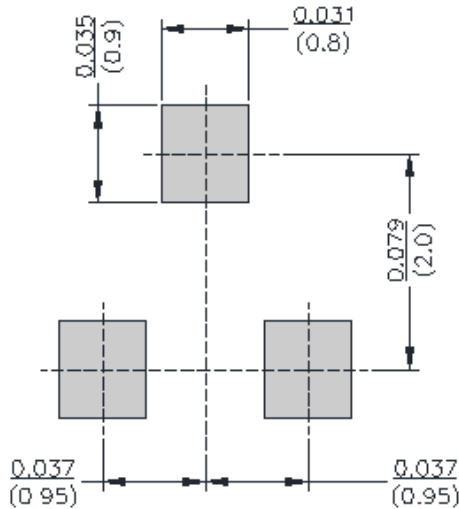


■ SOT-23 Package Outline Dimensions



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



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