

SSCP8550LGS6

High Frequency High Gain PNP Power BJT

Features

VCE	VBE	VCESAT	IC	
-25V	-5V	-600mV	-500mA	

> Description

This device is produced with advanced high carrier density technology, which is especially used to minimize saturation voltage drop. This device particularly suits low voltage applications such as portable equipment, power management and other battery powered circuits, and low in-line power dissipation are needed in a very small outline surface mount package. Excellent thermal and electrical capabilities.

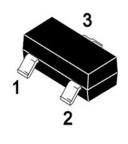
Applications

- Supply line switching circuits
- Battery management application
- DC/DC converter applications

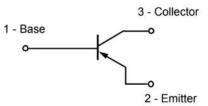
Ordering Information

Device	Package	Shipping
SSCP8550LGS6	SOT-23	3000/Reel

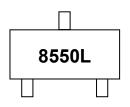
Pin configuration



SOT-23



Circuit Diagram



Marking(Top View)



SSCP8550LGS6

➤ Absolute Maximum Ratings(T_A=25°C unless otherwise noted)

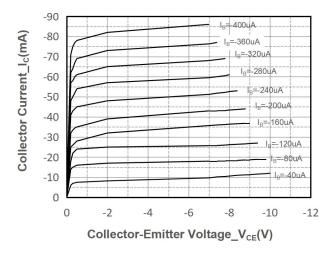
Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	-40	V
Collector- Emitter Voltage	V _{CEO}	-25	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current-Continuous	Ic	-500	mA
Collector Power Dissipation	Pc	625	mW
Junction Temperature	TJ	150	$^{\circ}$
Storage Temperature	T _{STG}	-55 to 150	$^{\circ}$

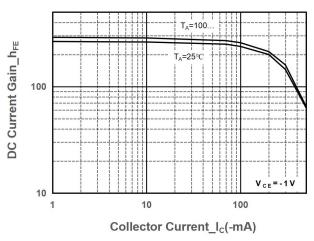
➤ Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Тур.	Max.	Unit
Collector-Base Breakdown Voltage	BV _{CBO}	I _C =-0.1mA,I _E =0	-40			V
Collector-emitter Breakdown Voltage	BV _{CEO}	I _C =-1mA,I _B =0	-25			V
Emitter -Base Breakdown Voltage	BV _{EBO}	I _E =-0.1mA,I _C =0	-5			V
Collector Cutoff Current	I _{CBO}	V _{CB} =-35V,I _E =0			-0.1	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =-4V,I _C =0			-0.1	μA
DC Current Gain	h _{FE}	V _{CE} =-1V,I _C =-50mA	85		400	
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⊤	V _{CE} =-6V,I _C =-20mA	150			MHz
Transition frequency		f=30MHz				IVITZ



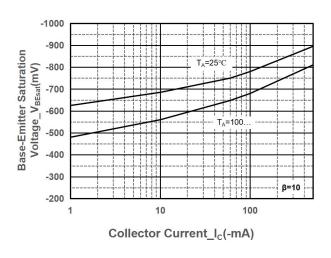
> Typical Performance Characteristics (T_A=25℃ unless otherwise noted)

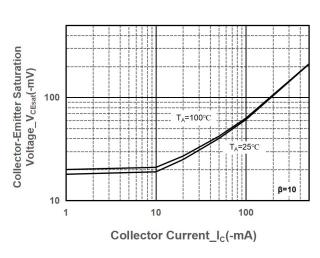




Collector Current vs. Collector-Emitter Voltage

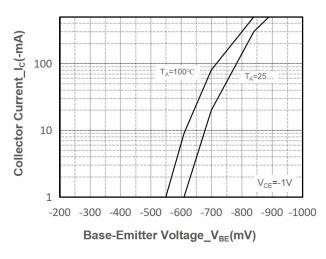
DC Current Gain vs. Collector Current

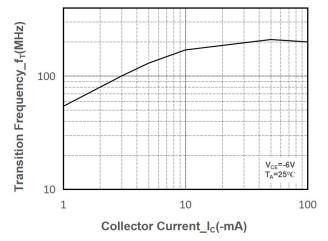




V_{BE(sat)} vs. Collector Current

V_{CE(sat)} vs. Collector Current



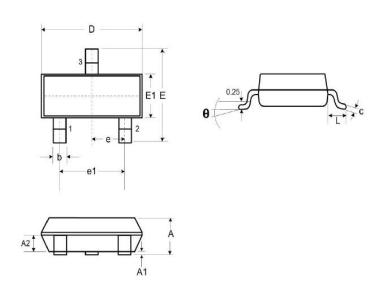


Collector Current vs. Base-Emitter Voltage

Transition Frequency vs. Collector Current

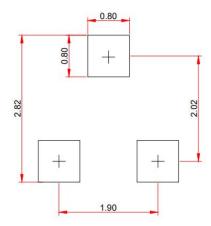


Package Information



DIM	Millimeters			
	Min.	Тур.	Max.	
Α	0.89	ı	1.12	
A 1	0.01	ı	0.10	
A2	0.88	0.95	1.02	
b	0.30	-	0.51	
С	0.08		0.18	
D	2.80	2.90	3.04	
E	2.10	2.37	2.64	
E1	1.20	1.30	1.40	
е		0.95		
e1		1.90		
L	0.40	0.50	0.60	
L1	0.55			
N		3		
θ	0°	-	8°	

Recommended Pad outline(Unit: mm)





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