

SSCP5401AGSB

High Frequency High Gain DUAL PNP Power BJT

Features

VCB	VCE	VEB	IC
-160V	-150V	-5V	-200mA

Description

This device is designed for general-purpose high-voltage amplifiers and gas discharge display drivers. It is Ideal for medium power amplification and switching.

Applications

- General-purpose high-voltage amplifiers
- Gas discharge display drivers
- Medium power amplification and switching

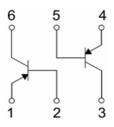
Ordering Information

Device	Package	Shipping	
SSCP5401AGSB	SOT-23-6L	3000/Reel	

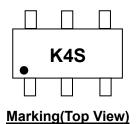
Pin configuration



SOT-23-6L



Circuit Diagram





SSCP5401AGSB

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

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	-160	V
Collector- Emitter Voltage	$V_{\sf CEO}$	-150	V
Emitter-Base Voltage	V _{EBO} -5		V
Collector Current-Continuous	Ic	-200	mA
Collector Power Dissipation	Pc	200	mW
Junction Temperature	TJ	-55 to 150	$^{\circ}$
Storage Temperature	T _{STG}	-55 to 150	$^{\circ}$

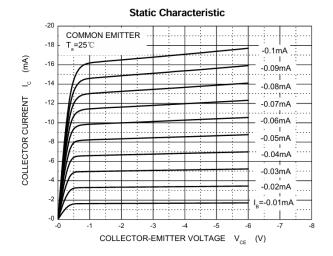
> Electrical Characteristics (T_A=25℃ unless otherwise noted)

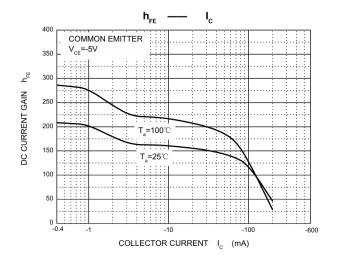
Parameter	Symbol	Test Conditions	Min.	Тур.	Max.	Unit
Collector-Base Breakdown Voltage	ВУсво	I _C =-0.1mA, I _E =0	-160			V
Collector-emitter Breakdown Voltage	BVceo	I _C =-1mA, I _B =0	-150			V
Emitter -Base Breakdown Voltage	BV _{EBO}	I _E =-10uA, I _C =0	-5			V
Collector Cutoff Current	Ісво	V _{CB} =-120V, I _E =0			-0.05	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =-3V, I _C =0			-0.05	μA
	h _{FE1}	V _{CE} =-5V, I _C =-1mA	50			
DC Current Gain	h _{FE2}	V _{CE} =-5V, I _C =-10mA	100		300	
	h _{FE3}	V _{CE} =-5V, I _C =-50mA	50			
Collector Emitter Seturation Voltage	VCE (sat)1	I _C =-10mA, I _B =-1mA			-0.2	V
Collector-Emitter Saturation Voltage	V _{CE (sat)2}	I_C =-50mA, I_B =-5mA			-0.5	V
Base Emitter Seturation Valtage	V _{BE (sat)1}	I _C =-10mA, I _B =-1mA			-1	V
Base-Emitter Saturation Voltage	V _{BE} (sat)2	I _C =-50mA, I _B =-5mA			-1	V
Output Capacitance	Cob	V _{CB} =-10V, IE=0,			6	nE.
Output Capacitance		f=1MHz			0	pF

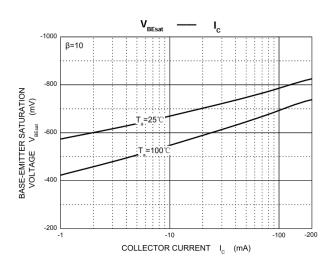


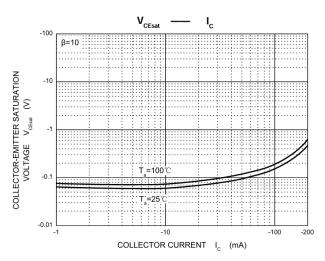


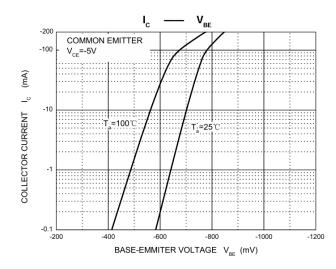
> Typical Performance Characteristics (T_A=25℃ unless otherwise noted)

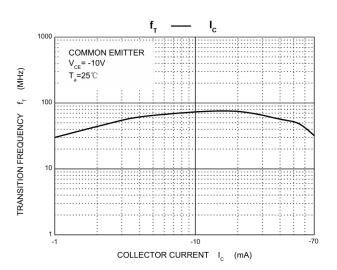






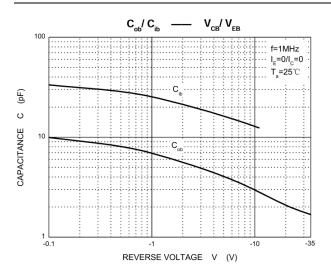


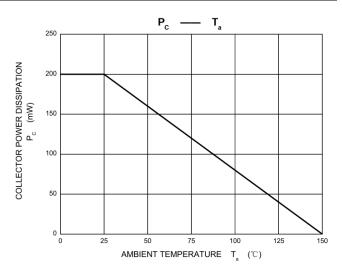






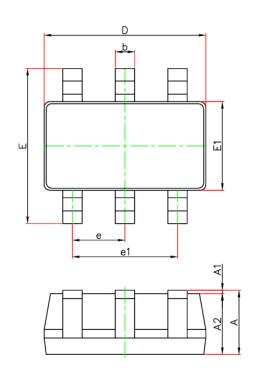


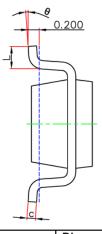




Package Information

SOT-23-6L

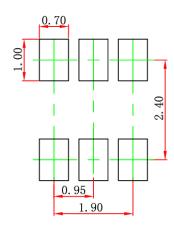




Symbol	Dimensions In	n Millimeters	Dimensions In Inches		
Syllibol	Min.	Max.	Min.	Max.	
Α	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.300	0.500	0.012	0.020	
С	0.100	0.200	0.004	0.008	
D	2.820	3.020	0.111	0.119	
E1	1.500	1.700	0.059	0.067	
E	2.650	2.950	0.104	0.116	
е	0.950(BSC)		0.037(BSC)		
e1	1.800	2.000	0.071	0.079	
L	0.300	0.600	0.012	0.024	
θ	0°	8°	0°	8°	



SOT-23-6L Suggested Pad Layout



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