

SSCP5401GSG

Dual PNP Switching Transistor

Features

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

Pin configuration



SOT-363

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

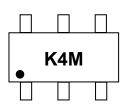
- General-purpose high-voltage amplifiers
- Gas discharge display drivers
- Medium power amplification and switching

C₂ B₁ E₁ E₂ B₂ C₁

Circuit Diagram

> Ordering Information

Device	Package	Shipping	
SSCP5401GSG	SOT-363	3000/Reel	



Marking (Top View)



SSCP5401GSG

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

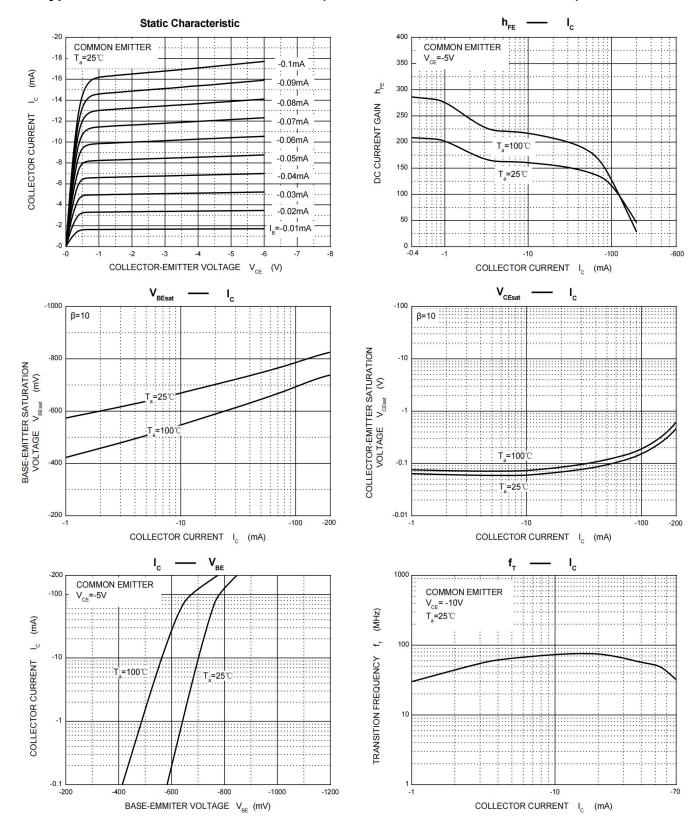
Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	-160	V
Collector- Emitter Voltage	V _{CEO}	-150	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current-Continuous	Ic	-200	mA
Collector Power Dissipation	Pc	200	mW
Junction Temperature	TJ	-55 to 150	$^{\circ}$
Storage Temperature	T _{STG}	-55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

➤ 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 = -100uA,I _E =0	-160			V
Collector-emitter Breakdown Voltage	BV _{CEO}	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	I _{CBO}	V _{CB} = -120V,I _E =0			-50	nA
Emitter Cutoff Current	I _{EBO}	V _{EB} = -3V,I _C =0			-50	nA
	hfE	V _{CE} =-5V,I _C = -1mA	50			nA
DC Current Gain		V _{CE} =-5V,I _C = -10mA	100		300	
		V _{CE} =-5V,I _C = -50mA	50			
Callegates Funittee Catematics Maltage	V _{CE(sat)}	I _C = -10mA,I _B = -1mA			-0.2	V
Collector-Emitter Saturation Voltage		I _C = -50mA,I _B = -5mA			-0.5	V
Dana Fraittan Cataratian Valtana		I _C = -10mA,I _B = -1mA			-1.0	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C = -50mA,I _B = -5mA	I _B = -5mA -1.0 V			
Output Capacitance	Cob	V _{CB} =-10V, I _E =0,f=1MHz			6	pF
Transition frequency	f⊤	V _{CE} =-10V,I _C =-10mA f=100MHz	100			MHz

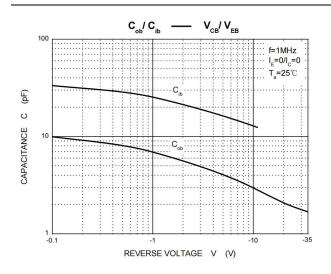


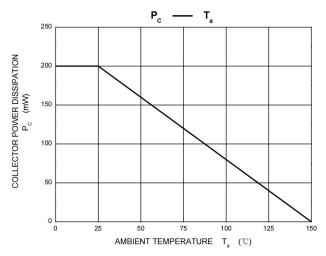
> Typical Performance Characteristics (TA=25°C unless otherwise noted)



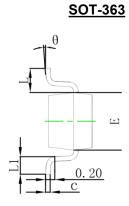


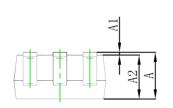
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Package Information

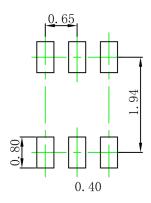




Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
Α	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.150	0.350	0.006	0.014
С	0.100	0.150	0.004	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.400	0.085	0.094
е	0.650 TYP		0.026	TYP
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021	REF
L1	0.260	0.460	0.010	0.018
θ	O°	8°	0°	8°



Recommended Pad outline(Unit: mm)



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