

3

SSCP9015GS6

PNP Switching Transistor

> Features

VCB	VCE	VEB	IC
-50V	-45V	-5V	-100mA

> Description

The PNP Transistor is designed for use in linear and switching applications. The device is housed in the SOT-23 package, which is designed for telephony and professional communication equipment.

1 - Base 2 - Emitter

Circuit Diagram

2

SOT-23

Pin configuration

 \triangleright

> Applications

- General purpose switching and amplification
- Telephony and professional communication equipment

> Ordering Information

Device	Package	Shipping
SSCP9015GS6	SOT-23	3000/Reel





SSCP9015GS6

> Absolute Maximum Ratings($T_A=25^{\circ}C$ unless otherwise noted)

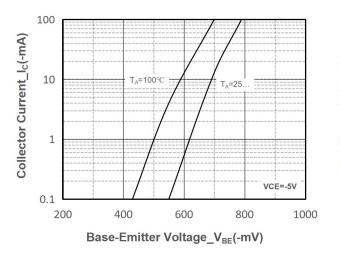
Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	-50	V
Collector- Emitter Voltage	V _{CEO}	-45	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current-Continuous	lc	-100	mA
Collector Power Dissipation	Pc	450	mW
Junction Temperature	TJ	150	°C
Storage Temperature	T _{STG}	-55 to 150	°C

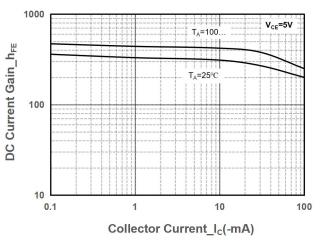
> Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Тур.	Max.	Unit
Collector-Base Breakdown Voltage	BV _{CBO}	I _C =-50uA, I _E =0	-50			V
Collector-emitter Breakdown Voltage	BV _{CEO}	I _C =-1mA, I _B =0	-45			V
Emitter -Base Breakdown Voltage	BV _{EBO}	I _E =-50uA, I _C =0	-5			V
Collector Cutoff Current	I _{СВО}	V _{CB} =-50V, I _E =0			-100	nA
Emitter Cutoff Current	I _{EBO}	V _{EB} =-5V, I _C =0			-100	nA
DC Current Gain	h _{FE}	V _{CE} =-5V, I _C =-1mA	60		600	
Collector-Emitter Saturation Voltage	V _{CE (sat)}	lc=-100mA, l _B =-5mA			-0.3	V
Base-Emitter Saturation Voltage	V _{BE (sat)}	Ic=-100mA, I _B =-5mA			-1.0	V
Transition frequency	f⊤	V _{CE} =-5V, I _C =-10mA f=30MHz	100			MHz

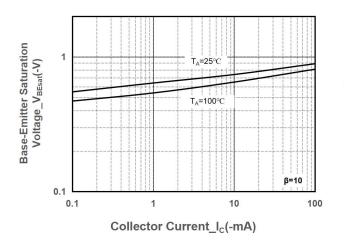


> Typical Performance Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

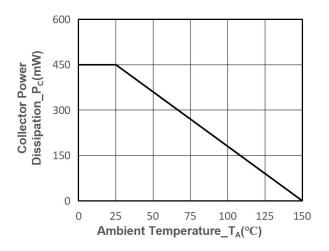




Collector Current vs. Base-Emitter Voltage

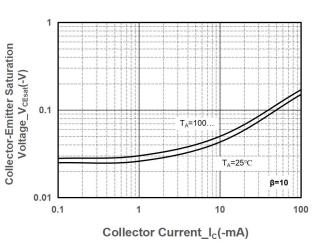




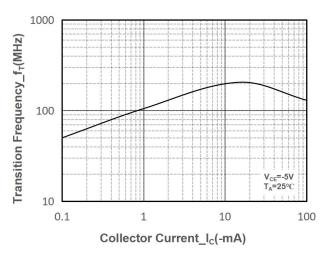




DC Current Gain vs. Collector Current



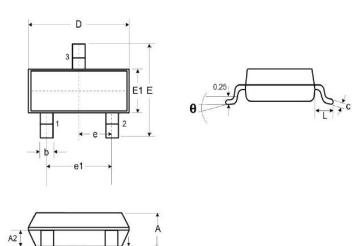
VCE (sat) vs. Collector Current



Transition Frequency vs. Collector Current



Package Information

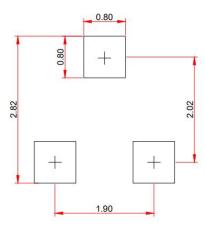


DIM	Millimeters			
	Min.	Тур.	Max.	
Α	0.89	-	1.12	
A1	0.01	-	0.10	
A2	0.88	0.95	1.02	
b	0.30	-	0.51	
С	0.08	-	0.18	
D	2.80	2.90	3.04	
E	2.10	2.37	2.64	
E1	1.20	1.30	1.40	
e1	1.90			
е	0.95			
L	0.40	0.50	0.60	
L1	0.55			
N	3			
θ	0°	-	8°	

Millimeters

Recommended Pad outline (Unit: mm)

A1





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