

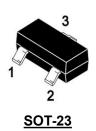
SSCP1037GS6

PNP Switching Transistor

Features

VCB	VCE	VEB	IC
-60V	-50V	-6V	-150mA

Pin configuration



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.

Applications

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

1 - Base 2 - Emitter

Circuit Diagram

> Ordering Information

Device	Package	Shipping
SSCP1037GS6	SOT-23	3000/Reel





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

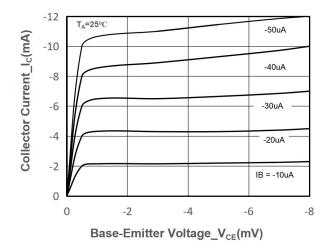
Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	-60	V
Collector- Emitter Voltage	V _{CEO}	-50	V
Emitter-Base Voltage	V _{EBO}	-6	V
Collector Current-Continuous	Ic	-150	mA
Collector Power Dissipation	Pc	200	mW
Junction Temperature	TJ	-55 to 150	$^{\circ}$
Storage Temperature	T _{STG}	-55 to 150	${\mathbb C}$

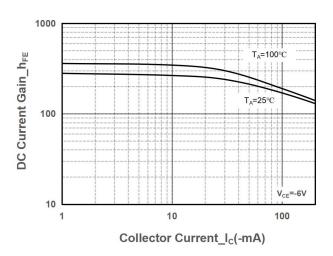
\triangleright Electrical Characteristics (T_A = 25°C unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Тур.	Max.	Unit
Collector-Base Breakdown Voltage	BV _{CBO}	$I_{C} = -50uA, I_{E} = 0$	-60			V
Collector-emitter Breakdown Voltage	BV _{CEO}	$I_{C} = -1 \text{mA}, I_{B} = 0$	-50			V
Emitter -Base Breakdown Voltage	BV _{EBO}	$I_E = -50uA, I_C = 0$	-6			V
Collector Cutoff Current	I _{CBO}	$V_{CB} = -60V, I_{E} = 0$			-0.1	μA
Emitter Cutoff Current	I _{EBO}	$V_{EB} = -6V, I_C = 0$			-0.1	μA
DC Current Gain	h _{FE}	V _{CE} = -6V, I _C = -1mA	180		390	
Collector-Emitter Saturation Voltage	V _{CE} (sat)	I _C = -50mA, I _B = -5mA			-0.5	V
Transition frequency	f⊤	V _{CE} = -12V, I _C = -2mA f = 30MHz		140		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -12V$, $I_E = 0$, $f = 1MHz$		4.0	5.0	pF



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

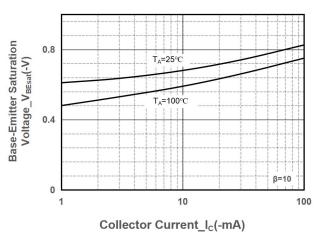


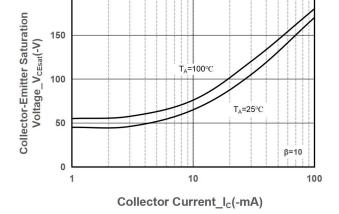


Collector Current vs. Base-Emitter Voltage

DC Current Gain vs. Collector Current

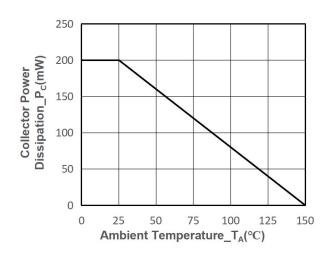
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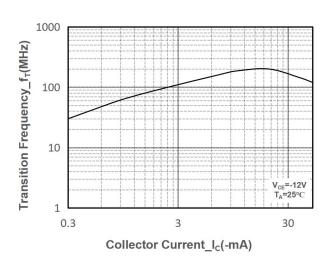




V_{BE (sat)} vs. Collector Current

V_{CE (sat)} vs. Collector Current





Power derating vs. Ambient temperature

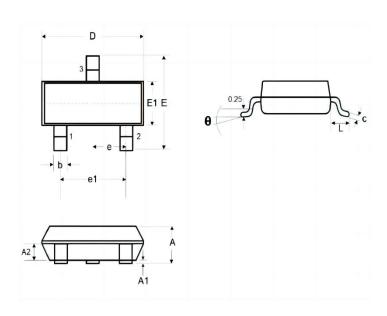
Transition Frequency vs. Collector Current

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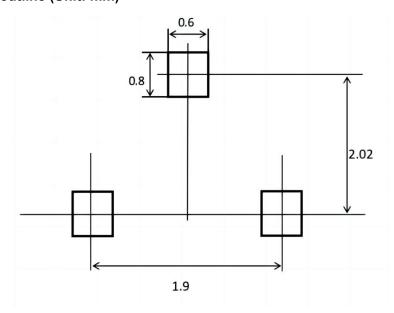
> Package Information

SOT-23



DIM	Millimeters			
	Min.	Тур.	Max.	
Α	0.89	-	1.12	
A 1	0.01	1	0.10	
A2	0.88	0.95	1.02	
b	0.30	-	0.51	
С	0.08	-	0.18	
D	2.800	2.90	3.000	
E	2.10	2.37	2.64	
E1	1.20	1.30	1.40	
е		0.95		
e1	1.80	-	2.00	
L	0.40	0.50	0.60	
L1	0.30		0.50	
θ	0°	-	8°	

Recommended Pad outline (Unit: mm)





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