

# SSCN2712GS6

### **NPN Switching Transistor**

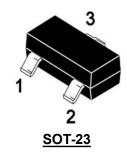
#### > Features

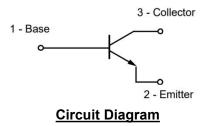
VCB	VCE	VBE	IC
60V	50V	5V	150mA

#### > Description

The NPN 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.

### Pin configuration



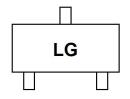


### > Applications

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

## > Ordering Information

Device	Package	Shipping
SSCN2712GS6	SOT-23	3000/Reel



Marking (Top View)



## SSCN2712GS6

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

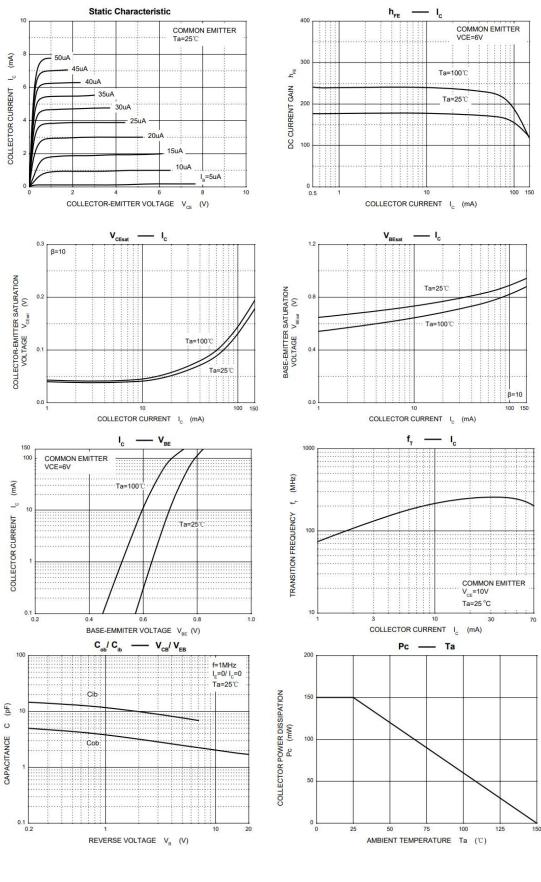
Parameter	Symbol	Value	Unit
Collector-Base Voltage	V <sub>CBO</sub>	60	V
Collector- Emitter Voltage	V <sub>CEO</sub>	50	V
Emitter-Base Voltage	V <sub>EBO</sub>	5	V
Collector Current-Continuous	Ic	150	mA
Collector Power Dissipation	Pc	150	mW
Junction Temperature	TJ	150	°C
Storage Temperature	T <sub>STG</sub>	-55 to 150	°C

## $\succ$ Electrical Characteristics (T<sub>A</sub>=25<sup>°</sup>C unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Тур.	Max.	Unit
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	I <sub>C</sub> =100uA, I <sub>E</sub> =0	60			V
Collector-emitter Breakdown Voltage	BV <sub>CEO</sub>	I <sub>C</sub> =1mA, I <sub>B</sub> =0	50			V
Emitter -Base Breakdown Voltage	BV <sub>EBO</sub>	I <sub>E</sub> =100uA,I <sub>C</sub> =0	5			V
Collector Cutoff Current	I <sub>CBO</sub>	V <sub>CB</sub> =60V,I <sub>E</sub> =0			100	nA
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> =5V,I <sub>C</sub> =0			100	nA
DC Current Gain	h <sub>FE</sub>	V <sub>CE</sub> =6V,I <sub>C</sub> =2mA	200		400	
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =100mA,I <sub>B</sub> =10mA		0.1	0.25	V
Output Capacitance	Cob	V <sub>CB</sub> =60V, I <sub>E</sub> =0,f=1MHz		2.0	3.5	pF
Transition frequency	f⊤	V <sub>CE</sub> =10V,I <sub>C</sub> =1mA	80			MHz
Noise Figure	NF	V <sub>CE</sub> =6V, I <sub>C</sub> =0.1mA		1.0	10	dB
		f=1KHz, Rg=10KΩ				



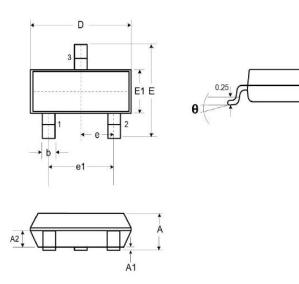
### > Typical Performance Characteristics ( $T_A=25^{\circ}C$ unless otherwise noted)





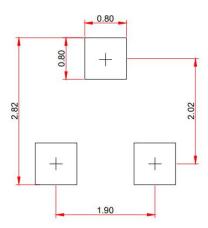


## Package Information



DIM	N	Aillimeter	S	
	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	
е	0.95			
e1	1.90			
L	0.40	0.50	0.60	
L1	0.55			
Ν		3		
θ	<b>θ</b> 0° -			

Recommended Pad outline (Unit: mm)



C



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