

SSCN2712GS6

NPN Switching Transistor

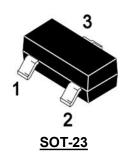
Features

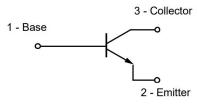
VCB	VCE	VBE	IC
60V	50V	5V	150mA

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

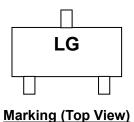




Circuit Diagram

Applications

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



Ordering Information

Device	Package	Shipping
SSCN2712GS6	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}	5	V
Collector Current-Continuous	Ic	150	mA
Collector Power Dissipation	Pc	150	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T _{STG}	-55 to 150	°C

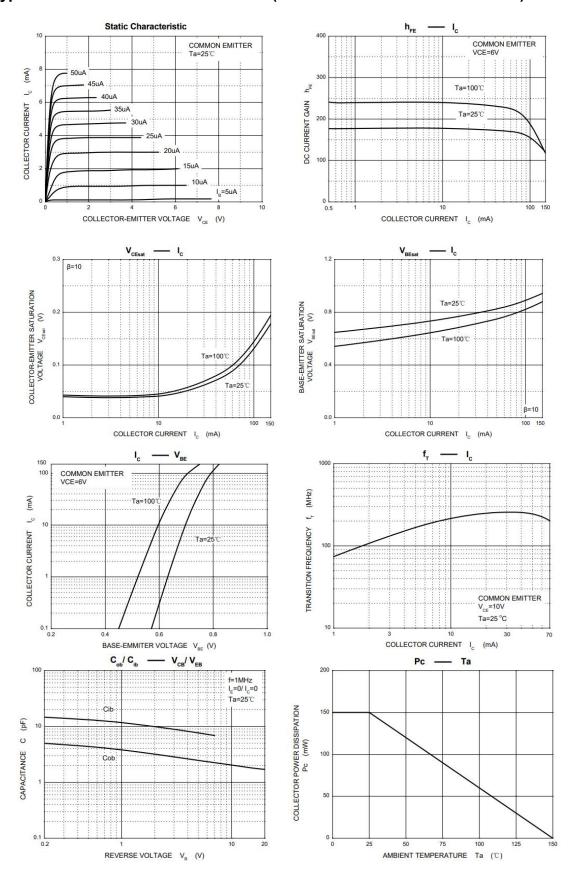
\succ Electrical Characteristics (T_A=25 $^{\circ}$ C unless otherwise noted)

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

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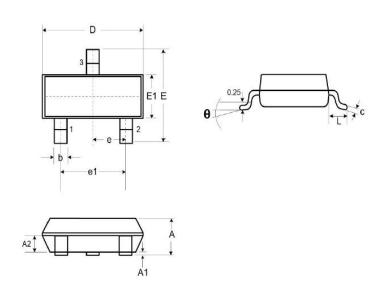


> Typical Performance Characteristics (T_A=25℃ unless otherwise noted)



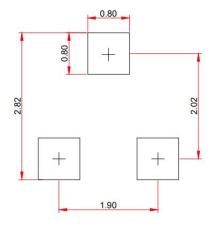


> Package Information



DIM	Millimeters			
DIIVI	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			
N	3			
θ	0°	-	8°	

Recommended Pad outline (Unit: mm)





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