

SSCN4617GS8

NPN Switching Transistor

Features

VCB	VCE	VEB	IC
60V	50V	7V	150mA

Description

The NPN Transistor is designed for use in linear and switching applications. The device is housed in the SOT-523 package, which is designed for telephony and professional communication equipment.

Applications

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

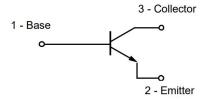
> Ordering Information

Device	Package	Shipping
SSCN4617GS8	SOT-523	3000/Reel

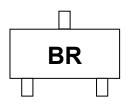
> Pin configuration



SOT-523



Circuit Diagram



Marking(Top View)

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

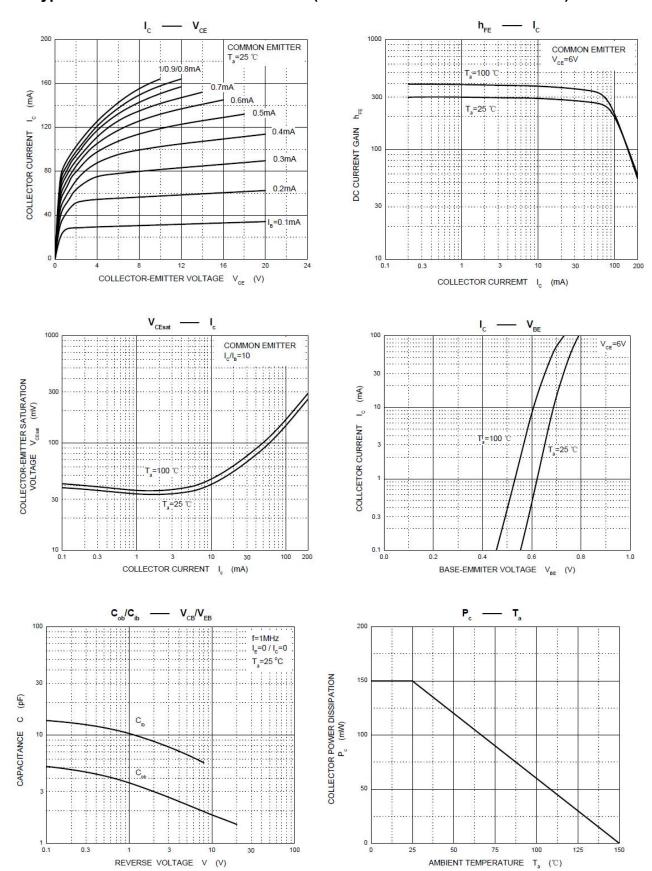
Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	60	V
Collector- Emitter Voltage	V _{CEO}	50	٧
Emitter-Base Voltage	V _{EBO}	7	V
Collector Current-Continuous	Ic	150	mA
Collector Power Dissipation	Pc	150	mW
Junction Temperature	TJ	150	$^{\circ}$
Storage Temperature	T _{STG}	-55 to 150	$^{\circ}$

➤ 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 =1mA,I _B =0	50			V
Emitter -Base Breakdown Voltage	BV _{EBO}	I _E =50uA,I _C =0	7			V
Collector Cutoff Current	I _{CBO}	V _{CB} =60V, I _E =0			0.1	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =7V,I _C =0			0.1	μA
DC Current Gain	h _{FE}	V _{CE} =6V,I _C =1mA	120		560	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =50mA,I _B =5mA			0.4	V
Transition frequency	f _⊤	V _{CE} =12V,I _C =2mA f=100MHz		180		MHz
Collector output capacitance	C _{ob}	V _{CB} =12V, I _E =0, f=1MHz		2	3.5	pF



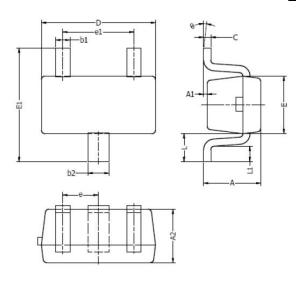
> Typical Performance Characteristics (T_A=25℃ unless otherwise noted)



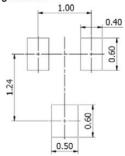


Package Information

SOT-523



Typical	Soldering	Pattern:



DIM	MILLIM	MILLIMETERS		INCHES	
DIM	MIN	MAX	MIN	MAX	
Α	0.70	0.90	0.028	0.035	
A1	0.00	0.10	0.000	0.004	
A2	0.70	0.80	0.028	0.031	
b1	0.15	0.25	0.006	0.010	
b2	0.25	0.35	0.010	0.014	
С	0.10	0.20	0.004	0.008	
D	1.50	1.70	0.059	0.067	
Е	0.70	0.90	0.028	0.035	
E1	1.45	1.75	0.057	0.069	
е	0.50	0.50 TYP.		TYP.	
e1	0.90	1.10	0.035	0.043	
L	0.40	0.40 REF.		REF.	
L1	0.10	0.30	0.004	0.012	
θ	O°	8°	O°	8°	

NOTES:

- Above package outline conforms to JEITA EAIJ ED-7500A SC-75A.
 Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.



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Analog Future