

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.

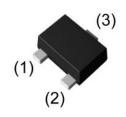
Applications

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

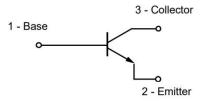
> Ordering Information

Device	Package	Shipping
SSCN4617GS8	SOT-523	3000/Reel

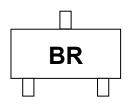
> Pin configuration



SOT-523



Circuit Diagram



Marking(Top View)

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

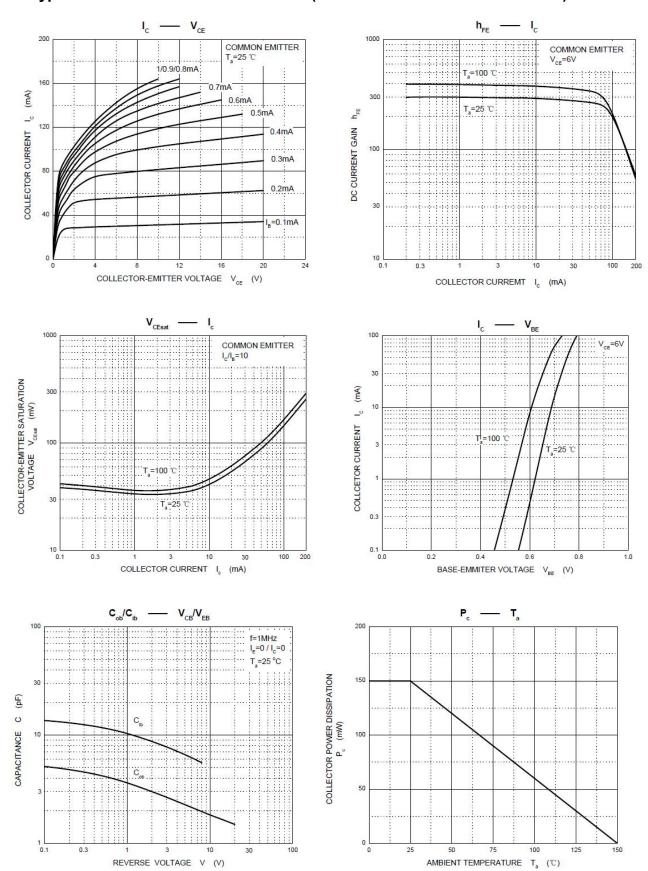
Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	60	V
Collector- Emitter Voltage	V _{CEO}	50	V
Emitter-Base Voltage	V _{EBO}	7	V
Collector Current-Continuous	Ic	150	mA
Collector Power Dissipation	Pc	150	mW
Junction Temperature	TJ	150	°C
Storage Temperature	T _{STG}	-55 to 150	$^{\circ}$ C

➤ 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	Cob	V _{CB} =12V, I _E =0, f=1MHz		2	3.5	pF



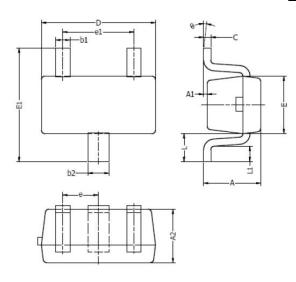
> Typical Performance Characteristics (T_A=25℃ unless otherwise noted)



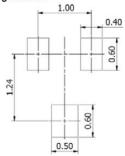


Package Information

SOT-523



Typic	al Sol	derina	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	
E	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