



SSCP1188GS3

PNP Switching Transistor

➤ Features

VCB	VCE	VEB	IC
-40V	-32V	-5V	-2A

➤ Description

The PNP Transistor is designed for use in linear and switching applications. The device is housed in the SOT89-3 package, which is designed for telephony and professional communication equipment.

➤ Applications

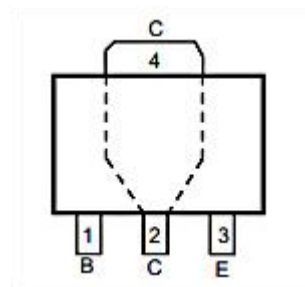
- General purpose switching and amplification
- Telephony and professional communication equipment

➤ Ordering Information

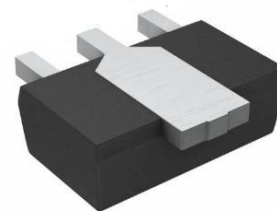
Device	Package	Shipping
SSCP1188GS3	SOT89-3L	1000/Reel

➤ Pin configuration

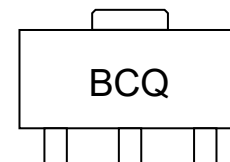
Top view



SOT89-3L



Bottom view



Marking(Top View)



➤ **Absolute Maximum Ratings**($T_A = 25^\circ\text{C}$ unless otherwise noted)

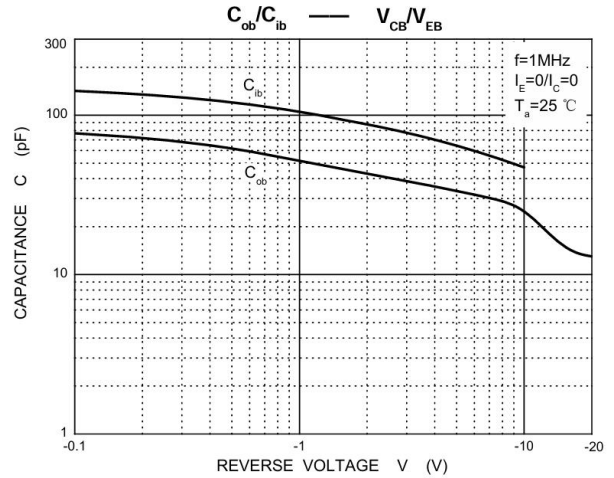
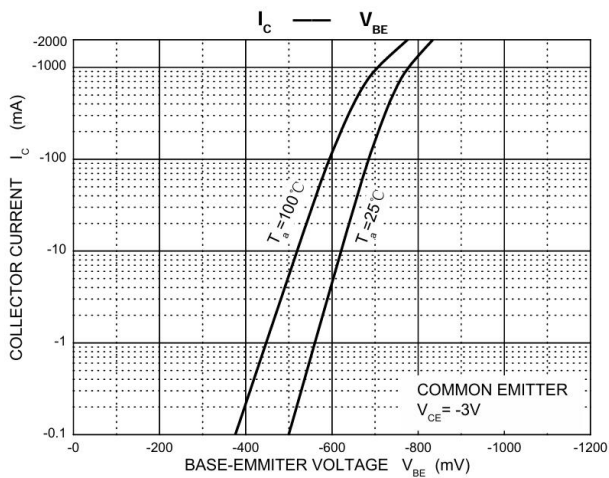
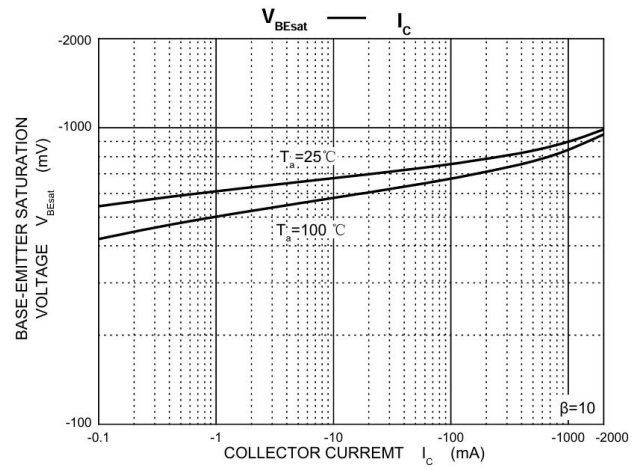
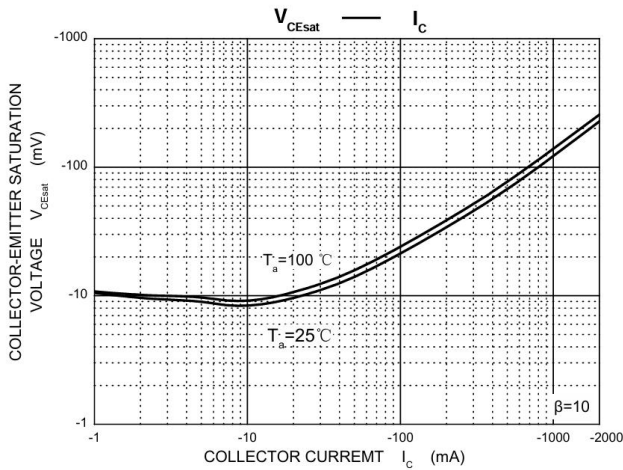
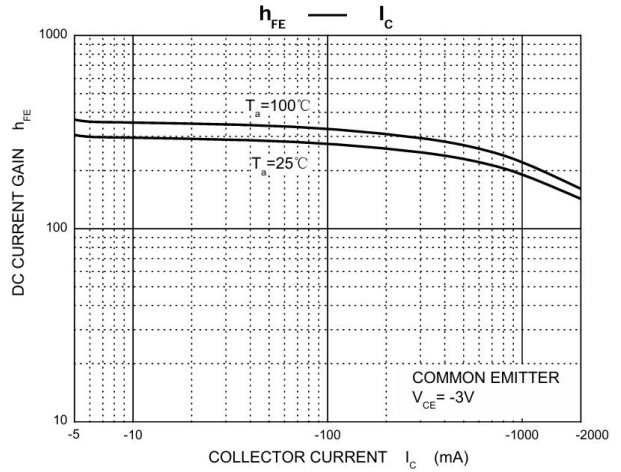
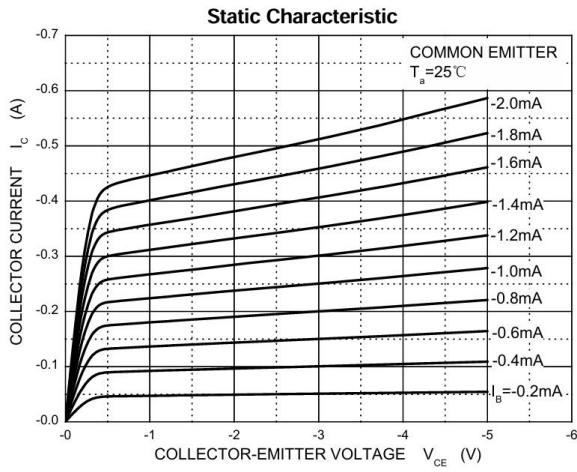
Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CB0}	-40	V
Collector- Emitter Voltage	V_{CEO}	-32	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current-Continuous	I_C	-2	A
Collector Power Dissipation	P_C	500	mW
Junction Temperature	T_J	-55 to 150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 to 150	$^\circ\text{C}$

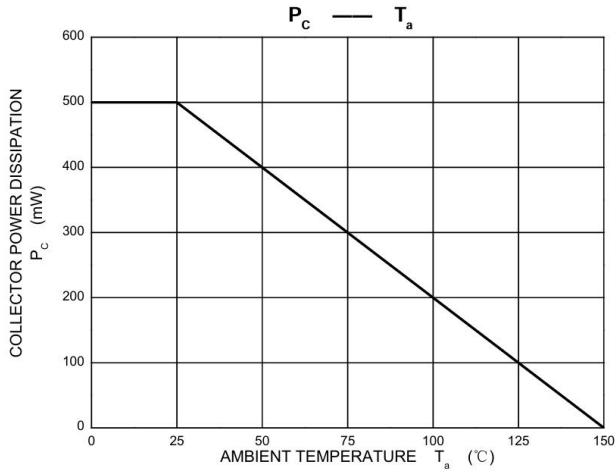
➤ **Electrical Characteristics** ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Collector-Base Breakdown Voltage	BV_{CB0}	$I_C = -50\mu\text{A}, I_E = 0$	-40			V
Collector-emitter Breakdown Voltage	BV_{CEO}	$I_C = -1\text{mA}, I_B = 0$	-32			V
Emitter -Base Breakdown Voltage	BV_{EBO}	$I_E = -50\mu\text{A}, I_C = 0$	-5			V
Collector Cutoff Current	I_{CB0}	$V_{CB} = -20\text{V}, I_E = 0$			-1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = -4\text{V}, I_C = 0$			-1	μA
DC Current Gain	h_{FE}	$V_{CE} = -3\text{V}, I_C = -0.5\text{A}$	120		270	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -2\text{A}, I_B = -0.2\text{A}$			-0.8	V
Transition frequency	f_T	$V_{CE} = -5\text{V}, I_C = -500\text{mA}$ $f = 30\text{MHz}$		100		MHz
Collector output capacitance	C_{ob}	$V_{CB} = -10\text{V}, I_E = 0,$ $f = 1\text{MHz}$		50		pF



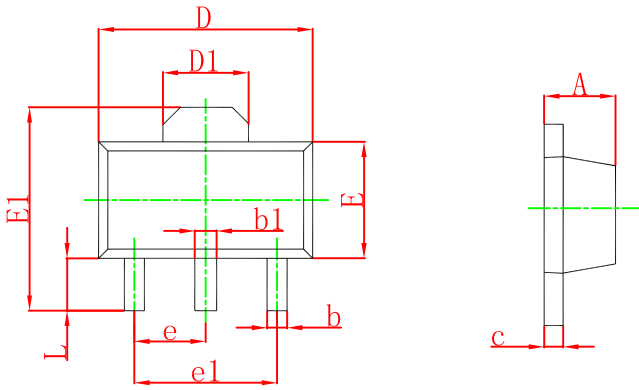
➤ Typical Performance Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)





Package Information

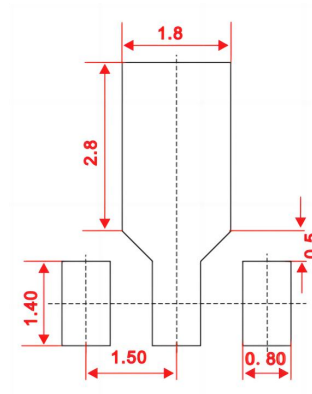
SOT89-3L



DIM	Millimeters		
	Min.	Typ.	Max.
A	1.400		1.600
b	0.320		0.520
b1	0.400		0.580
c	0.350		0.440
D	4.400		4.600
D1		1.550	
E	2.300		2.600
E1	3.940		4.250
e		1.500	
e1		3.000	
L	0.900		1.200



Recommended Pad outline (Unit: mm)



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