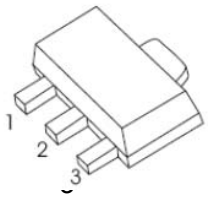
GOOD-ARK
SEMICONDUCTOR

GSBCX1188
PNP Transistor

Features

- Low $V_{CE(SAT)}$
- Plastic-Encapsulate Transistors

1. BASE
2. COLLECTOR
3. EMITTER



SOT-89-3L

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

Parameter	Symbol	Value	Unit
Collector-Base Volage	V_{CBO}	-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	0.5	W
Thermal Resistance, Junction−to−Ambient	$R_{\theta JA}$	250	°C/W
Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	°C

Electrical Characteristics (T_A=25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	I_C=-50μA, I_E=0	-40	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C= -1mA , I_B=0	-32	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	I_E=-50μA, I_C=0	-5	-	-	V
Collector Cut-Off Current	I_{CBO}	V_{CB}=-20 V , I_E=0	-	-	-1	μA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=-4 V , I_C=0	-	-	-1	μA
DC Current Gain [1]	h_{FE}	V_{CE}=-3V, I_C= -0.5A	82	-	390	
Collector-Emitter Saturation Voltage [1]	$V_{CE(sat)}$	I_C=-2A, I_B= -0.2A	-	-	-0.8	V
Transition Frequency	f_T	V_{CE}=-5V, I_C=-0.5A , f=30MHz	-	100	-	MHz
Output Capacitance	C_{OB}	V_{CB}=-10V, I_E=0 , f=1MHz	-	50	-	pF

Note 1: Measured using pulse current.

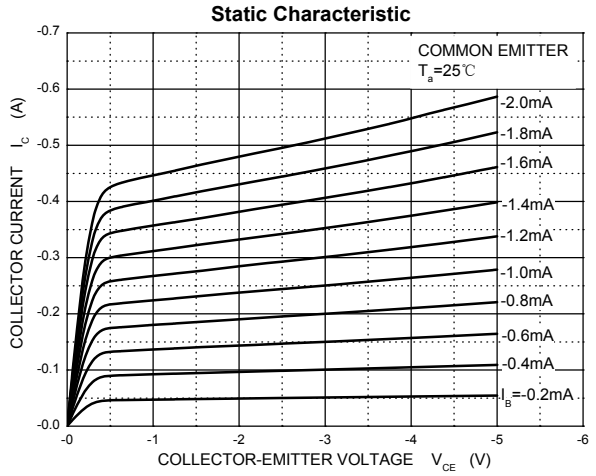
GOOD-ARK
SEMICONDUCTOR

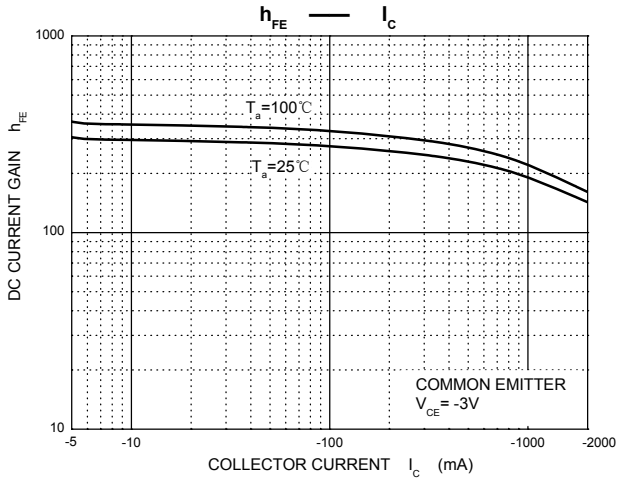
GSBCX1188
PNP Transistor

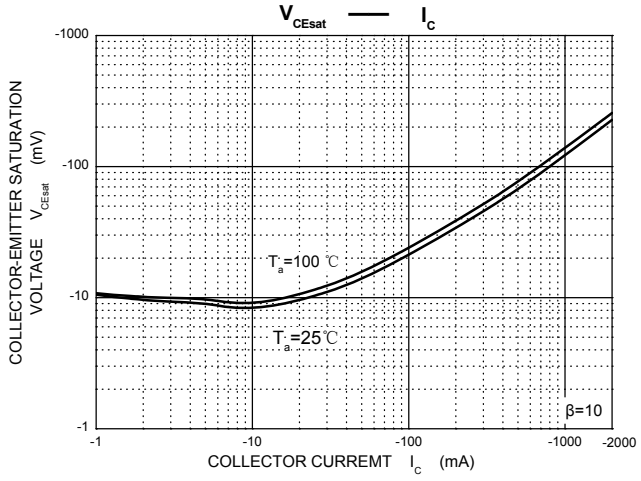
Classification of h_{FE}

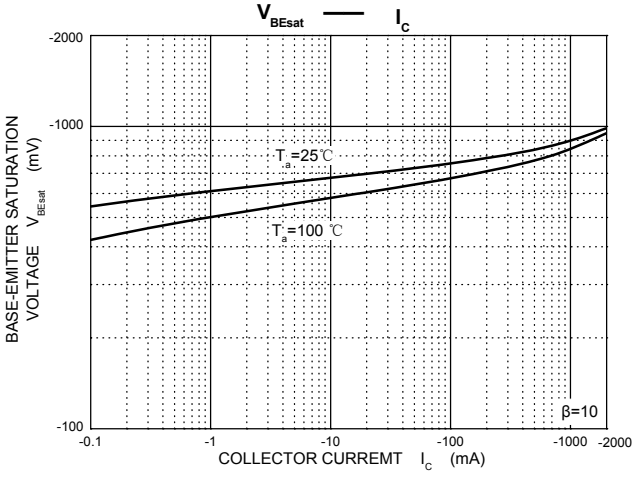
Rank	P	Q	R
Range	82-180	120-270	180-390
Marking	BCP	BCQ	BCR

Typical Characteristic Curves (T_A=25°C unless otherwise specified)

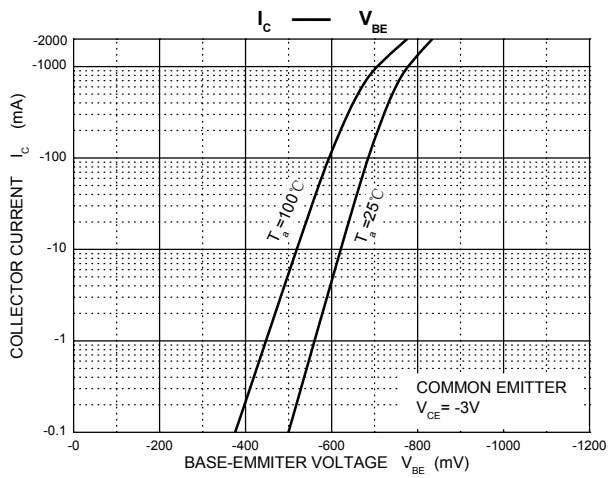


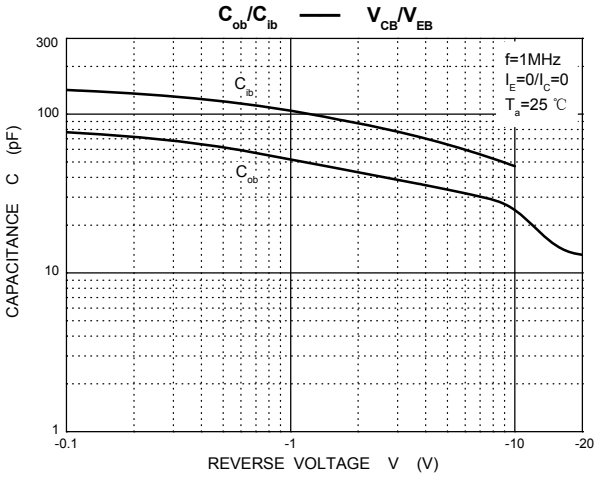


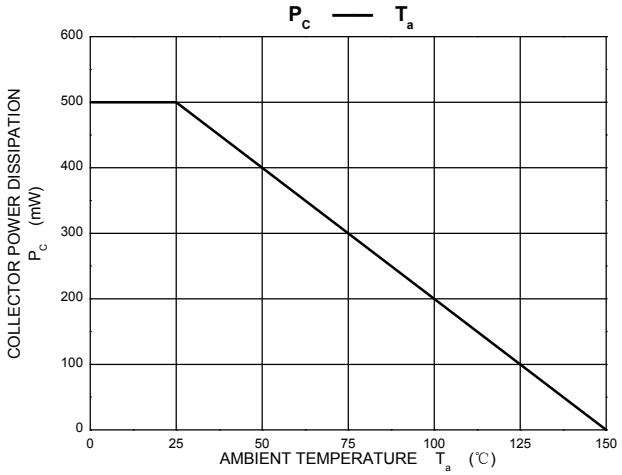




Typical Characteristic Curves (T_A=25°C unless otherwise specified)

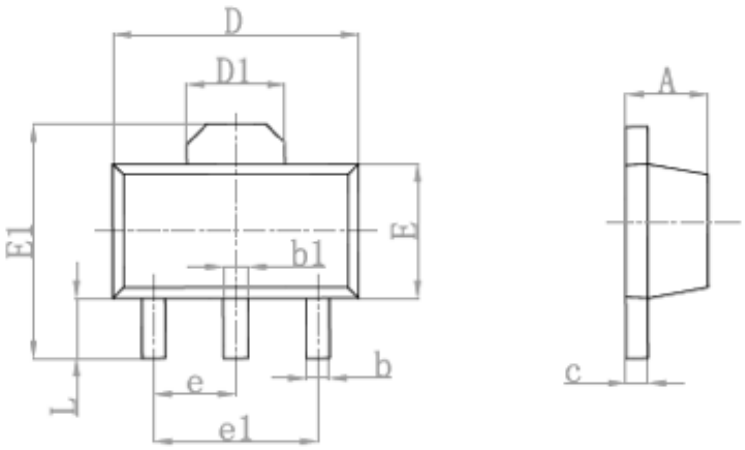






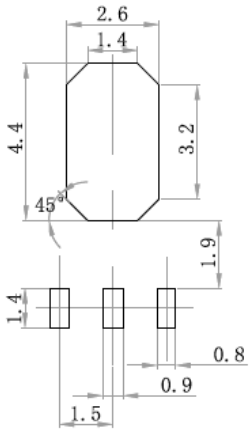
Package Outline Dimensions

SOT-89-3L



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.020
b1	0.400	0.580	0.016	0.023
c	0.350	0.440	0.014	0.017
D	4.400	4.600	0.173	0.181
D1	1.550 REF.		0.061 REF.	
E	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500 TYP.		0.060 TYP.	
e1	3.000 TYP.		0.118 TYP.	
L	0.900	1.200	0.035	0.047

Suggested Pad Layout



Note:
1.Controlling dimension:in millimeters.
2.General tolerance:±0.05mm.
3.The pad layout is for reference purposes only.