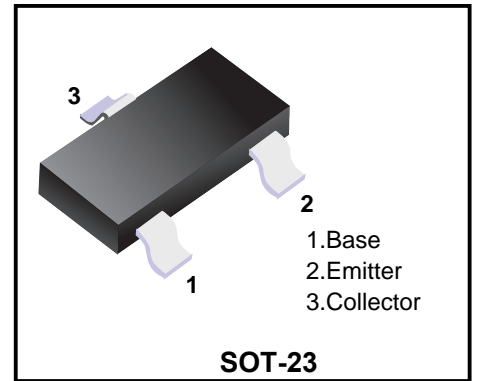


PNP Transistors

Features

- Excellent hFE linearity
- Collector Current :Ic=-0.5A



Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CB0}	-40	V
Collector - Emitter Voltage	V _{CEO}	-25	V
Emitter - Base Voltage	V _{EBO}	-5	V
Collector Current to Continuous	I _c	-500	mA
Collector Power Dissipation	P _c	300	mW
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55 to 150	°C

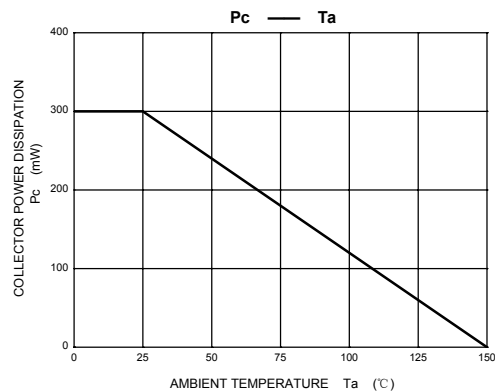
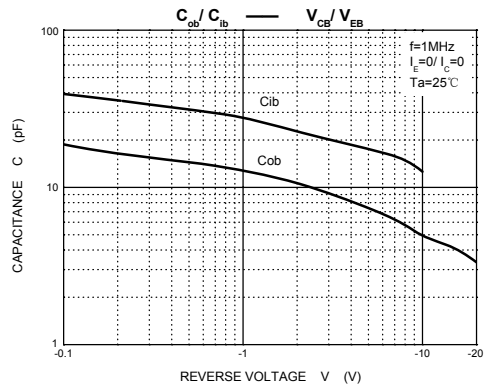
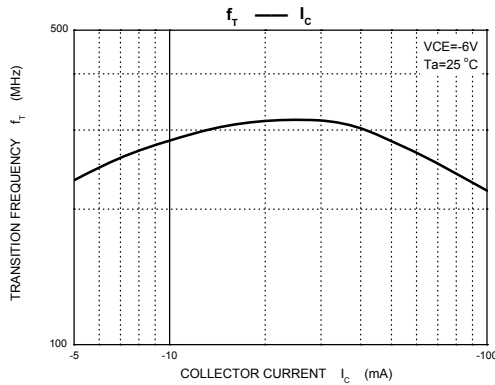
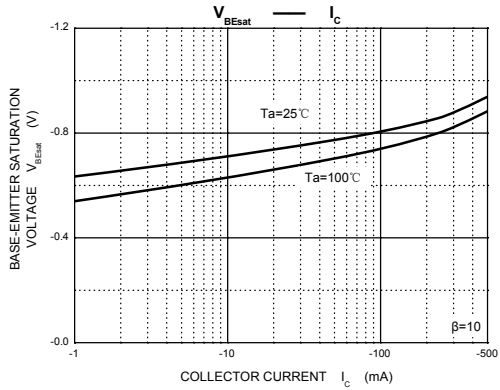
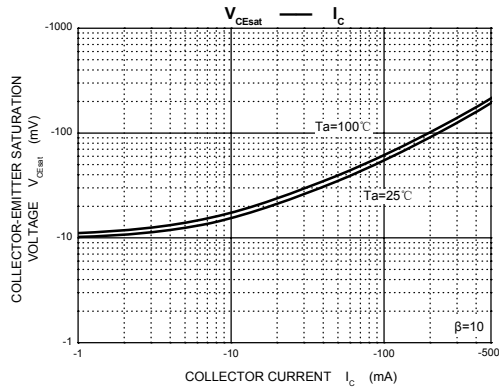
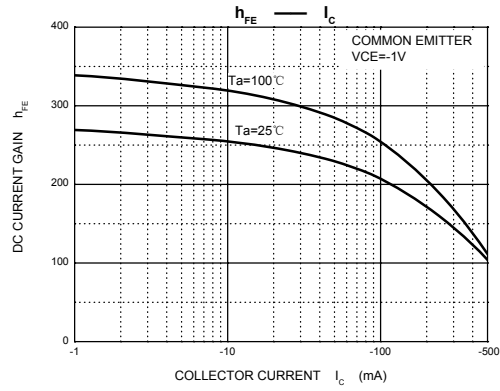
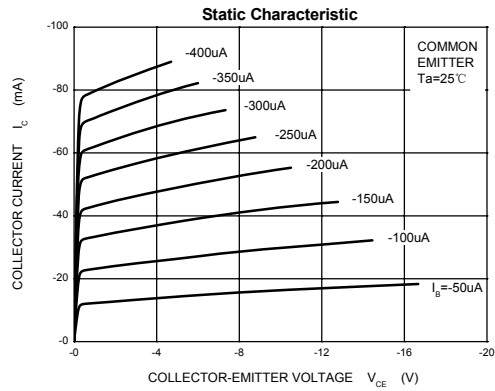
Electrical Characteristics (Ta=25°C unless otherwise specified.)

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector - base breakdown voltage	V _{CB0}	I _c = -100u A, I _E =0	-40			V
Collector - emitter breakdown voltage	V _{CEO}	I _c = -1 mA, I _B =0	-25			V
Emitter - base breakdown voltage	V _{EBO}	I _E = -100uA, I _C =0	-5			V
Collector cut - off current	I _{CB0}	V _{CB} =- 40V, I _E =0			-0.1	μ A
Collector cut - off current	I _{CEO}	V _{CB} =-20V, I _E =0			-1	μ A
Emitter cut - off current	I _{EBO}	V _{EB} =- 5V, I _C =0			-0.1	μ A
DC current gain	h _{FE}	V _{CE} =-1V, I _c = -50mA	120		400	
Collector - emitter saturation voltage	V _{CE(sat)}	I _c = -500 mA, I _B = -50mA			-0.6	V
Base - emitter voltage	V _{BE(sat)}	I _c = -500 mA, I _B =- 50mA			-1.2	V
Collector output capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz			5	pF
Transition frequency	f _T	V _{CE} =-6V, I _c =-20mA, f=30MHz	150			MHz

hFE Classification

Type	S9012	S9012-L	S9012-H	S9012-J
Range	200-350	120-200	144-202	300-400
Marking	2T1			

Typical Characteristics



Ordering information

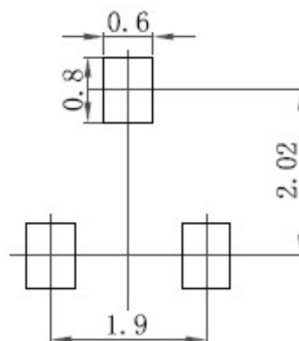
Package	Packing Description	Base Quantity	Packing Quantity
SOT-23	Tape/Reel,7"reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

Package Dimensions

SOT-23

Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.15	35	45
A1	0.1		3.9	
bp	0.38	0.48	15	19
C	0.09	0.15	3.54	5.9
D	2.8	3.0	110	118
E	1.2	1.4	47	55
E	1.9		75	
E1	0.95		37	
HE	2.1	2.55	83	100
Lp	0.15	0.45	5.9	18
Q	0.45	0.55	18	22
v	0.2		7.9	
W	0.1		4	

The recommended mounting pad size



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