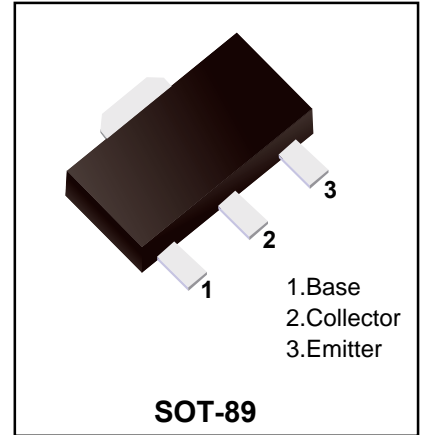


Surface Mount PNP Silicon Transistor



Features

- High current (max. 500mA).
- Low voltage (max. 150 V).

Marking Code	
CXT5401	5401

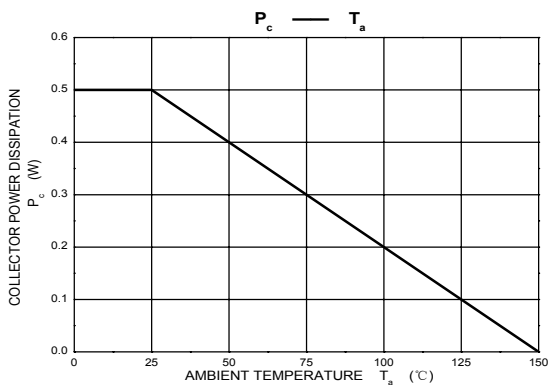
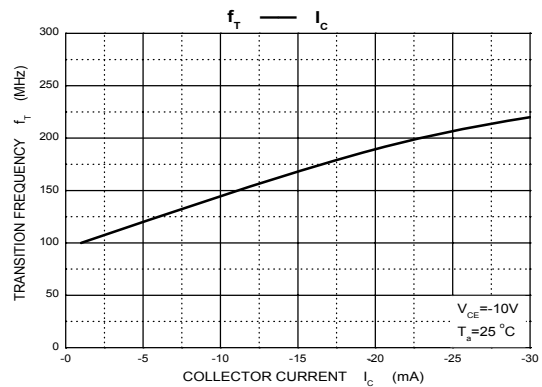
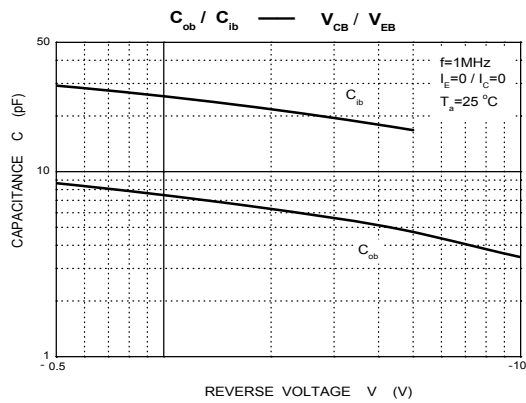
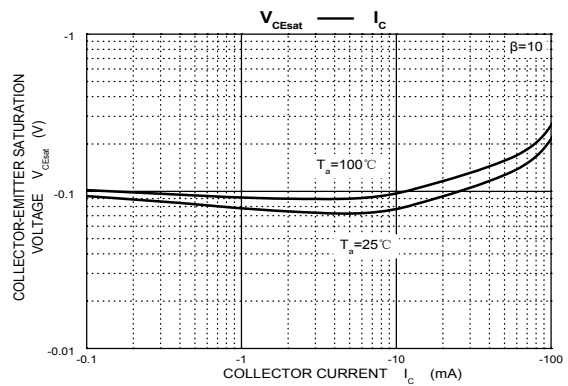
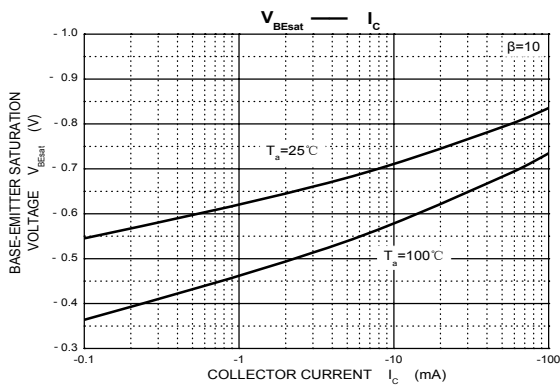
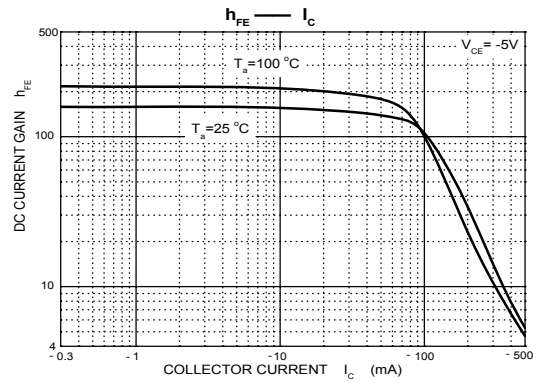
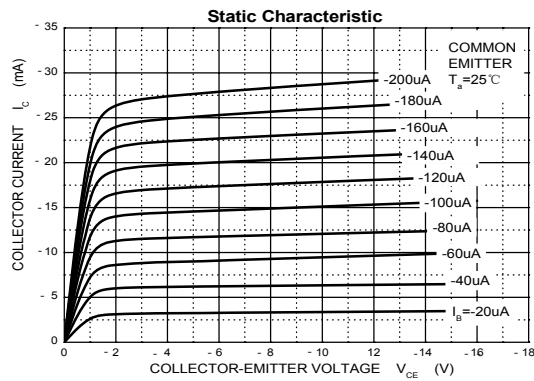
Absolute Maximum Rating (Ta=25°C)

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CB0}	-160	V
Collector-emitter voltage	V _{CEO}	-150	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current (DC)	I _c	-500	mA
power dissipation	P _D	1.2	W
thermal resistance Junction- to-ambient	R _{θJA}	104	°C/W
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-65 to +150	°C

Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector to base breakdown voltage	V _{CB0}	I _C =-100 μ A	-160			V
Collector to emitter breakdown voltage	V _{CEO}	I _C =-1.0mA	-150			V
Emitter to base breakdown voltage	V _{EBO}	I _E =-10 μ A	-5.0			V
Collector cutoff current	I _{CBO}	V _{CB} =- 120 V, I _E = 0			-50	nA
		V _{CB} =- 120 V, T _A =100°C			-50	μ A
DC current gain	h _{FE}	I _C = -1.0 mA; V _{CE} = -5.0 V	50			
		I _C = -10mA; V _{CE} =- 5.0V	60		240	
		I _C = -50 mA; V _{CE} = -5.0V	50			
Collector to emitter saturation voltage	V _{CE(sat)}	I _C =- 10 mA; I _B = -1.0mA			-0.2	V
		I _C = -50 mA; I _B = -5.0mA			-0.5	V
Base to emitter saturation voltage	V _{BE(sat)}	I _C = -10 mA; I _B = -1.0mA			-1.0	V
		I _C = -50 mA; I _B = -5.0mA			-1.0	V
Output capacitance	C _{ob}	V _{CB} =-10 V, I _E = 0, f=1.0MHz			6.0	pF
Transition frequency	f _T	I _C = -10 mA; V _{CE} =-10V; f = 100 MHz	100		300	MHZ

Typical Characteristics



Ordering information

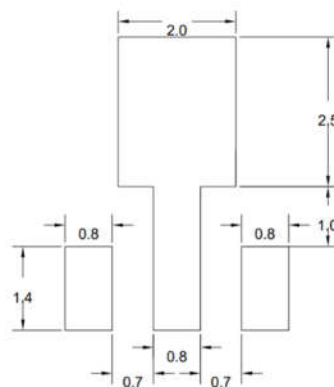
Package	Packing Description	Base Quantity	Packing Quantity
SOT-89	Tape/Reel,7"reel	1000pcs/Reel	6000PCS/Box 30000PCS/Carton

Package Dimensions

SOT-89

Dim	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	1.40	1.60	0.055	0.063
b	0.32	0.52	0.013	0.020
b1	0.38	0.58	0.015	0.023
c	0.35	0.45	0.014	0.018
D	4.40	4.60	0.173	0.181
D1	1.45	1.65	0.057	0.065
D2	1.70	1.80	0.067	0.071
E	2.30	2.60	0.091	0.102
E1	3.95	4.25	0.156	0.167
E2	1.80	2.00	0.071	0.079
e	1.40	1.60	0.055	0.063
e1	2.80	3.20	0.110	0.126
L	0.90	1.20	0.035	0.047

The recommended mounting pad size



UNIT:MM

Disclaimer

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