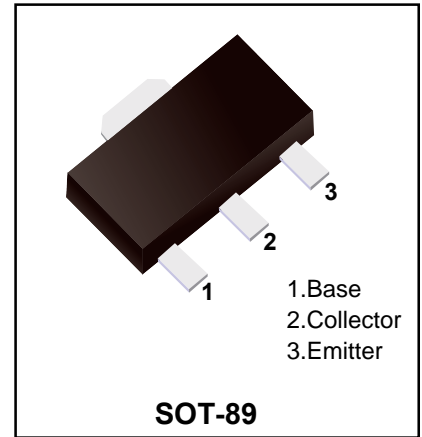


NPN Transistors

Features

- Epitaxial planar die construction
- Complementary to PXT2907A

Marking Code	
PXT2222A	P1P



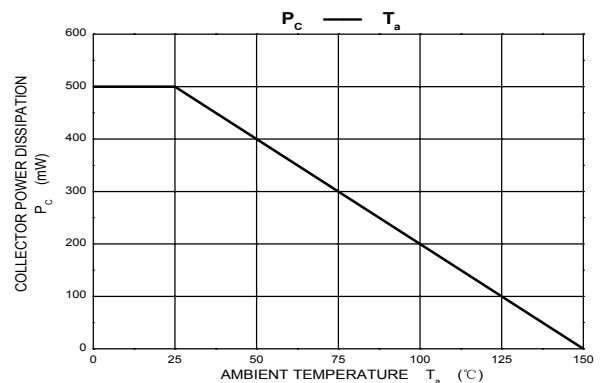
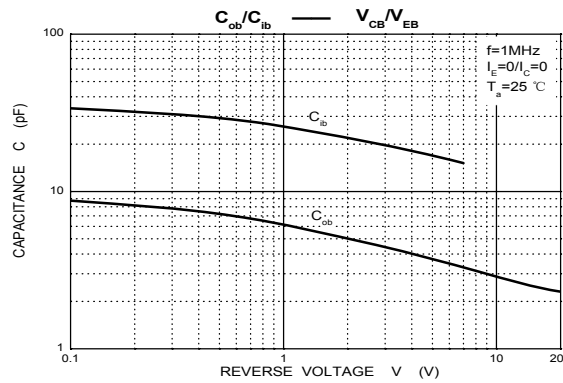
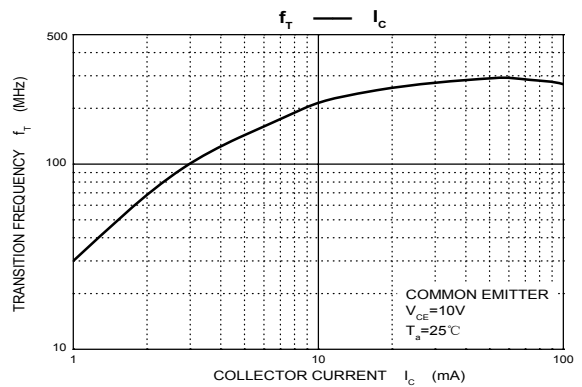
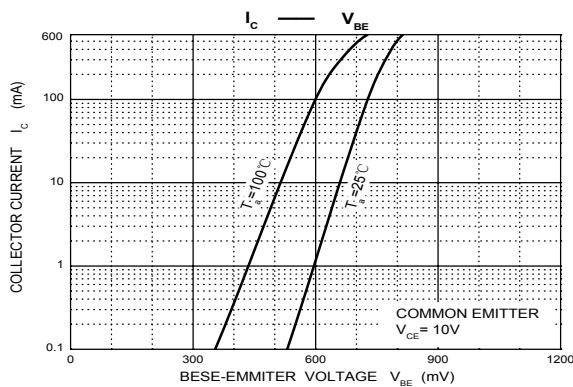
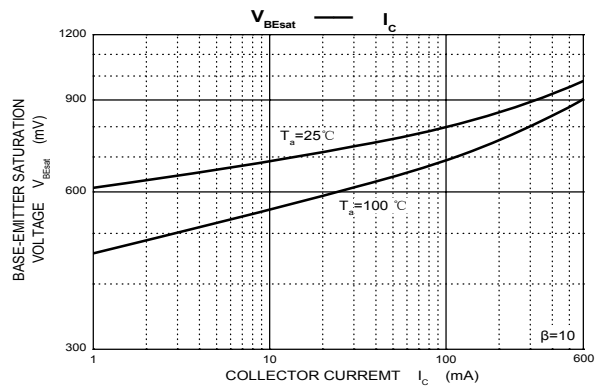
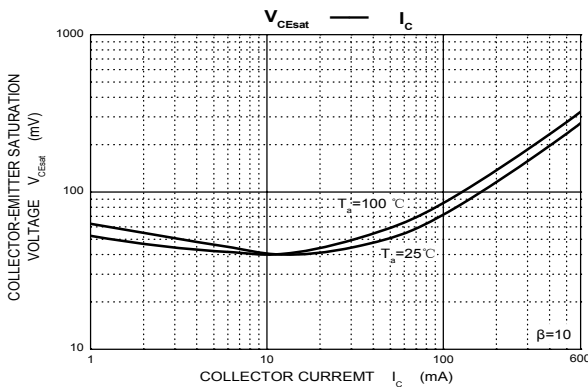
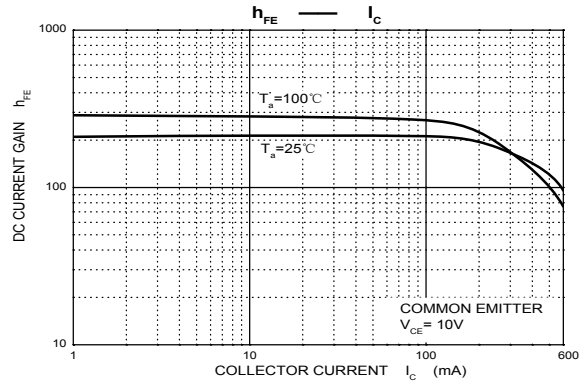
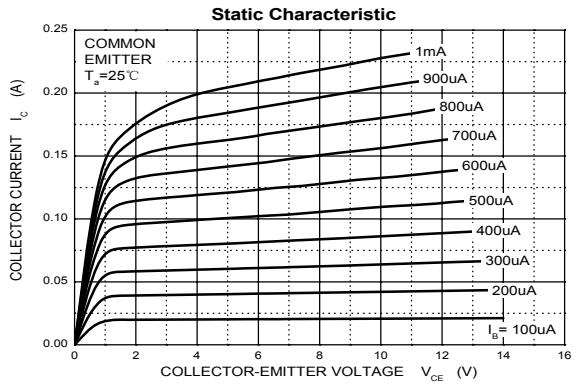
Absolute Maximum Rating (Ta=25°C)

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CB0}	75	V
Collector - Emitter Voltage	V _{CE0}	40	
Emitter - Base Voltage	V _{EB0}	6	
Collector Current - Continuous	I _c	600	mA
Collector Power Dissipation	P _c	500	mW
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	-55 to 150	

Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V _{CB0}	I _c = 100 μA, I _E = 0	75			V
Collector- emitter breakdown voltage	V _{CE0}	I _c = 10 mA, I _B = 0	40			
Emitter - base breakdown voltage	V _{EB0}	I _E = 100 μA, I _C = 0	6			
Collector-base cut-off current	I _{CB0}	V _{CB} = 60 V, I _E = 0			50	nA
Emitter cut-off current	I _{EB0}	V _{EB} = 5V, I _C =0			50	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500 mA, I _B =50mA			1	V
		I _C =500 mA, I _B =15mA			0.3	
Base - emitter saturation voltage	V _{BE(sat)}	I _C =500 mA, I _B =50mA			2	
		I _C =500 mA, I _B =15mA		0.6	1.2	
	h _{FE(1)}	V _{CE} = 10V, I _C = 0.1mA	50			
	h _{FE(2)}	V _{CE} = 10V, I _C = 10mA	75			
	h _{FE(3)}	V _{CE} = 10V, I _C = 150mA	100		300	
	h _{FE(4)}	V _{CE} = 1V, I _C = 150mA	50			
	h _{FE(5)}	V _{CE} = 10V, I _C = 500mA	40			
Delay time	t _d	V _{CC} =30V, I _C =150mA V _{BE(off)} =0.5V, I _{B1} =15mA			10	ns
Rise time	t _r				25	
Storage time	t _s				225	
Fall time	t _f				60	
Collector output capacitance	C _{ob}	V _{CB} = 10V, I _E = 0, f=1MHz			8	pF
Transition frequency	f _T	V _{CE} = 10V, I _C = 20mA, f=100MHz	300			MHz

Typical Characteristics



Ordering information

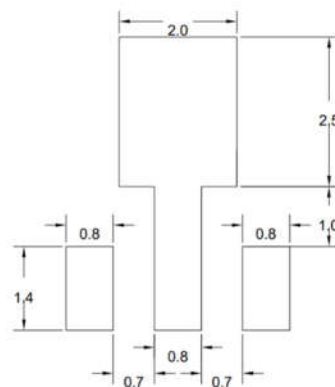
Package	Packing Description	Base Quantity	Packing Quantity
SOT-89	Tape/Reel,7"reel	1000pcs/Reel	6000PCS/Box 30000PCS/Carton

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

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