



CXT5401

PNP Plastic-Encapsulate Transistors

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Switching and amplification in high voltage Applications such as telephony
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

Symbol	Rating	Value	Unit
V _{CEO}	Collector-Emitter Voltage	150	V
V _{CBO}	Collector-Base Voltage	160	V
V _{EBO}	Emitter-Base Voltage	5.0	V
I _C	Collector Current DC	0.5	A
P _C	Collector Power Dissipation	0.5	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-65 to +150	°C

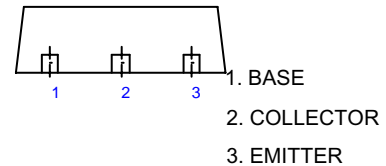
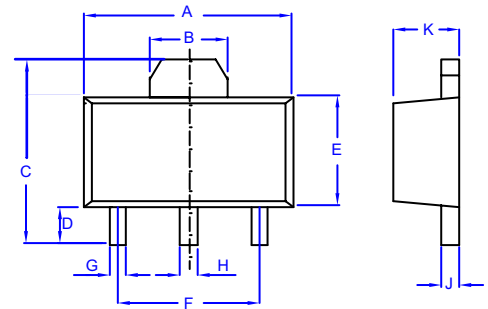
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
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OFF CHARACTERISTICS

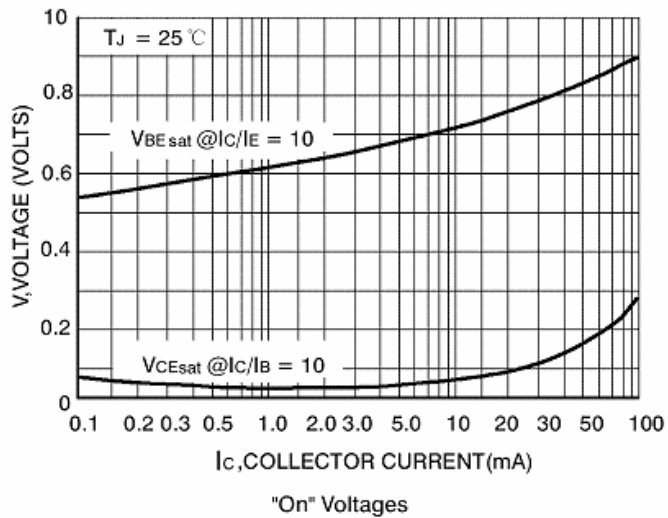
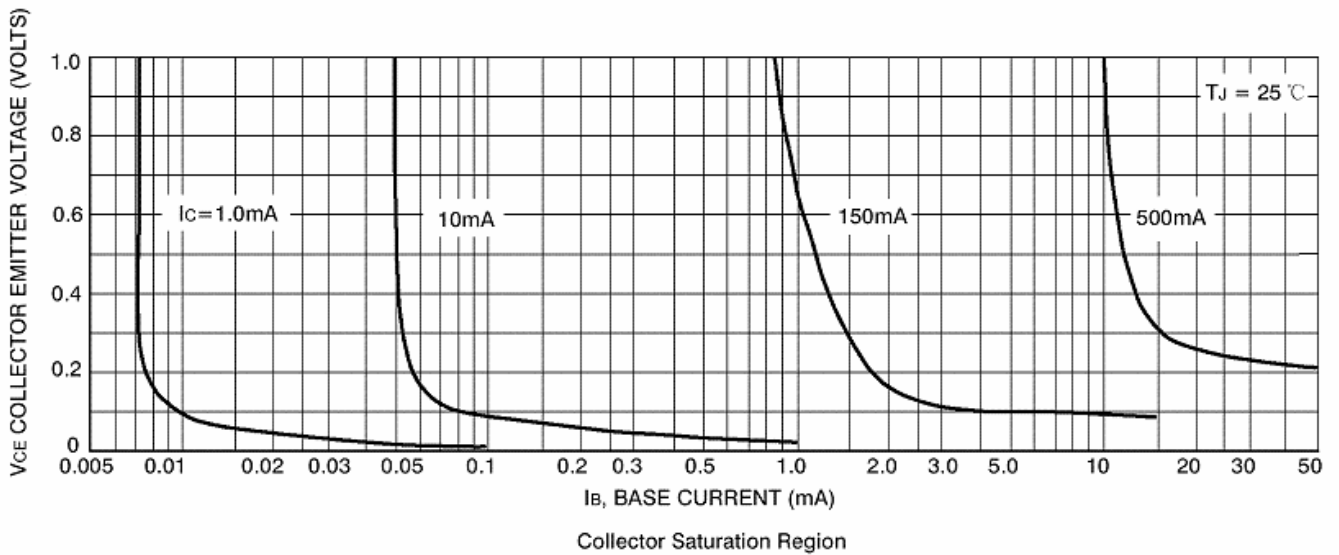
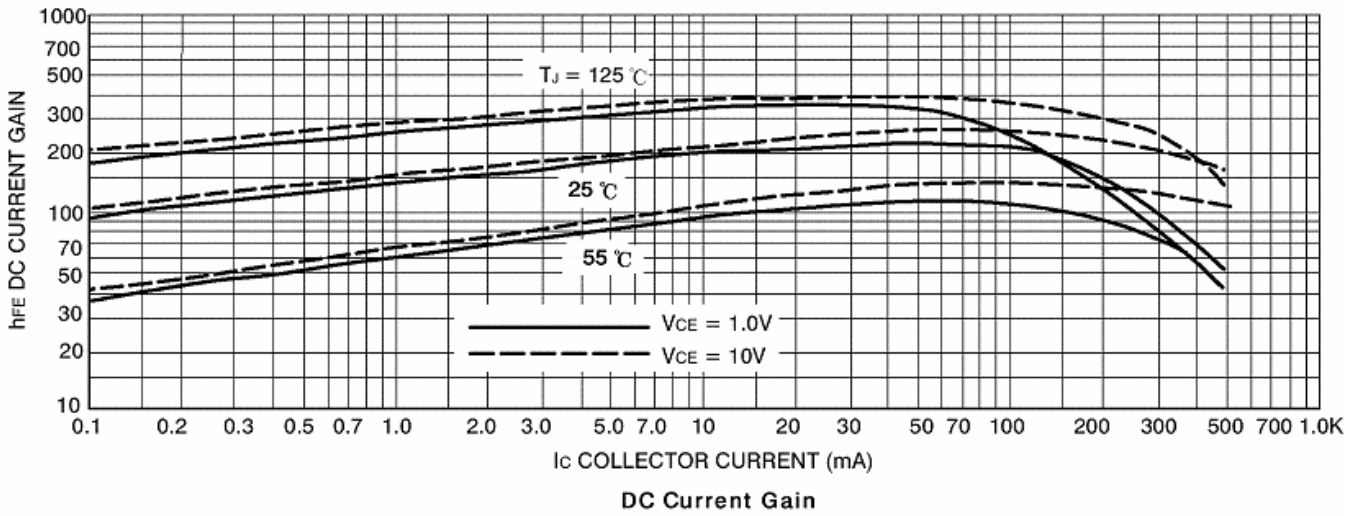
V _{CBO}	Collector-Base Voltage (I _C =100µAdc, I _E =0)	160	---	---	Vdc
V _{CEO}	Collector-Emitter Voltage (I _C =1mAdc, I _B =0)	150	---	---	Vdc
V _{EBO}	Emitter-Base Voltage (I _E =10µAdc, I _C =0)	5.0	---	---	Vdc
I _{CBO}	Collector Cutoff Current (V _{CB} =120Vdc, I _E =0)	---	---	50	nAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =3.0Vdc, I _C =0)	---	---	50	nAdc
h _{FE(1)}	DC Current Gain (V _{CE} =5.0Vdc, I _C =1mAdc)	50	---	---	---
h _{FE(2)}	DC Current Gain (V _{CE} =5.0Vdc, I _C =10mAdc)	60	---	300	---
h _{FE(3)}	DC Current Gain (V _{CE} =5.0Vdc, I _C =50mAdc)	50	---	---	---
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =10mAdc, I _B =1mAdc)	---	---	0.2	Vdc
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =50mAdc, I _B =5mAdc)	---	---	0.5	Vdc
V _{BE(sat)}	Base-Emitter Voltage (I _C =10mAdc, I _B =1mAdc)	---	---	1	Vdc
V _{BE(sat)}	Base-Emitter Voltage (I _C =50mAdc, I _B =5mAdc)	---	---	1	Vdc
f _T	Transition Frequency (V _{CE} =10Vdc, I _C =10mAdc, f=100MHz)	100	---	300	MHz
C _{ob}	Collector output capacitance (V _{CB} =10Vdc, I _E =0, f=1MHz)	---	---	6	pF
NF	Noise figure (V _{CE} =5Vdc, I _C =0.2mAdc, f=10MHz-15.7KHz, R _s =10ohm)	---	---	8	dB

SOT-89



DIM	DIMENSINS				NOTES
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.173	.181	4.39	4.60	
B	.061	-----	1.55	-----	REF.
C	.154	.165	3.91	4.25	
D	.031	.039	0.80	1.00	
E	.092	.100	2.34	2.54	
F	.118	-----	3.00	-----	TYP
G	.013	.019	0.33	0.48	
H	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	

Typical Characteristics





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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel; 1Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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