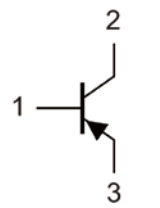


Features

- Switching and amplification in high voltage
Applications such as telephony
- Low current(max. 500mA)
- High voltage(max.160v)



SOT-89-3L



Equivalent Circuit

Absolute Maximum Ratings(T_A=25℃)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	-160	V
V _{CE0}	Collector-Emitter Voltage	-150	V
V _{EB0}	Emitter-Base Voltage	-5	V
I _C	Collector Current	-0.5	A
P _C	Collector Power Dissipation	0.5	W
R _{θJA}	Thermal Resistance From Junction To Ambient	250	℃/W
T _J , T _{stg}	Operation Junction And Storage Temperature Range	-55 ~ +150	℃

Electrical Characteristics (T_A=25℃ unless otherwise specified)

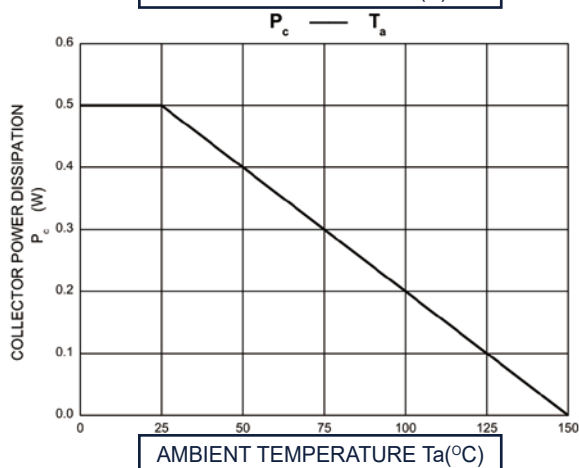
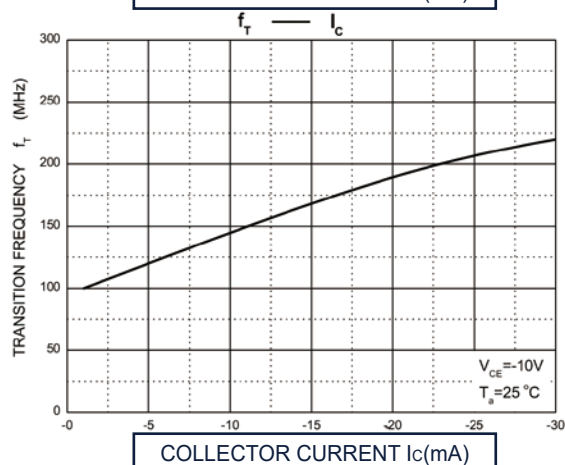
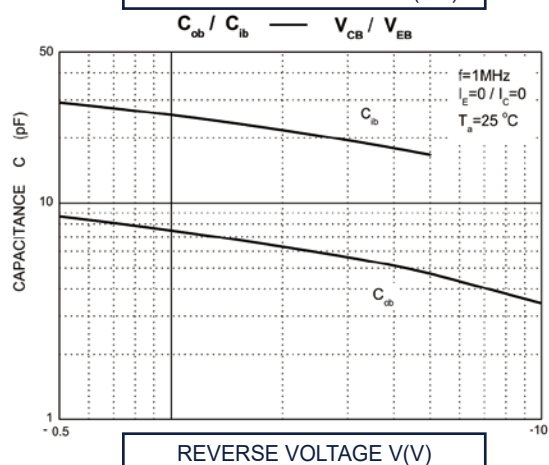
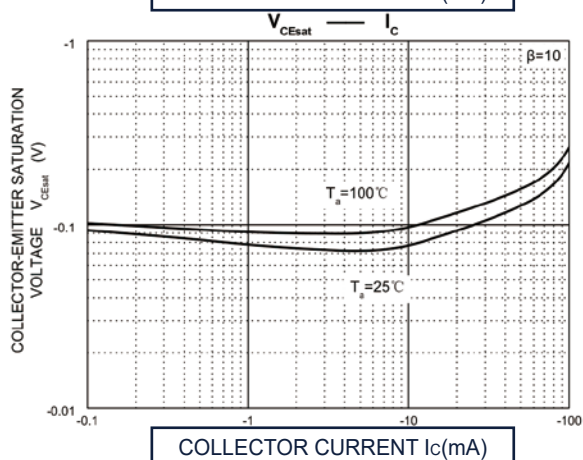
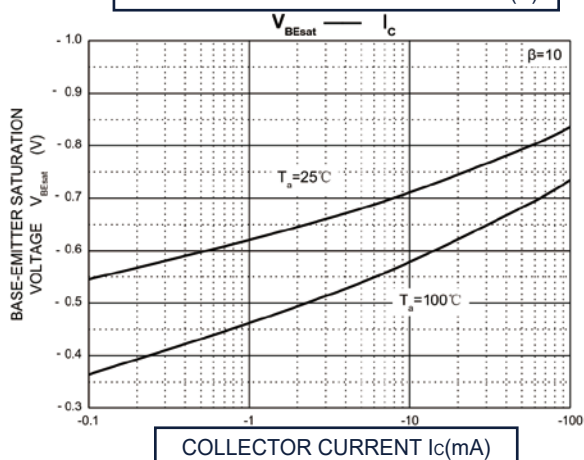
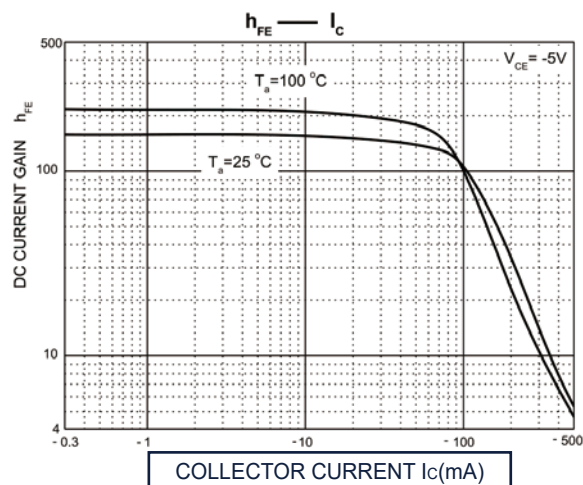
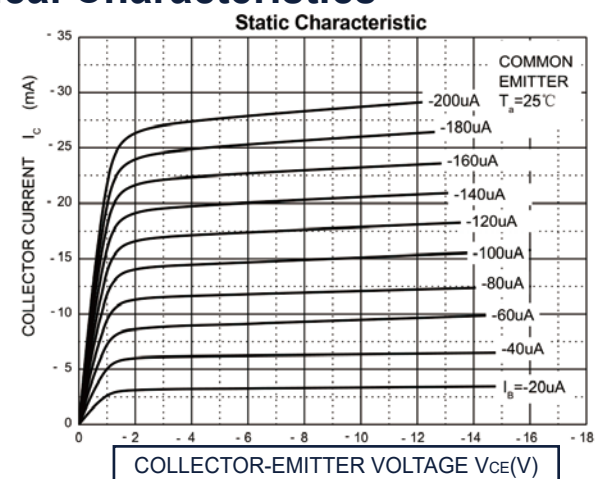
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =-100μA, I _E =0	-160			V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =-1mA, I _B =0	-150			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =-10μA, I _C =0	-5			V
I _{CBO}	Collector cut-off current	V _{CB} =-120V, I _E =0			-50	nA
I _{EBO}	Emitter cut-off current	V _{EB} =-3V, I _C =0			-50	nA
h _{FE(1)}	DC current gain	V _{CE} =-5V, I _C =-1mA	50			
h _{FE(2)}		V _{CE} =-5V, I _C =-10mA	100		300	
h _{FE(3)}		V _{CE} =-5V, I _C =-50mA	50			
V _{CE(sat)}	Collector-emitter saturation voltage	I _C =-10mA, I _B =-1mA			-0.2	V
V _{CE(sat)}	Collector-emitter saturation voltage	I _C =-50mA, I _B =-5mA			-0.5	V
V _{BE(sat)}	Base-emitter saturation voltage	I _C =-10mA, I _B =-1mA			-1	V
V _{BE(sat)}		I _C =-50 mA, I _B =-5 mA			-1	V
f _T	Transition frequency	V _{CE} =-10V, I _C =-10mA, f=100MHz	100		300	MHz
C _{ob}	Collector output capacitance	V _{CB} =-10V, I _E =0, f=1MHz			6	pF
NF	Noise Figure	V _{CE} =-5.0V, I _C =-200μA, R _S =10Ω, f=10Hz to 15.7kHz			8	dB

Ordering information

Product ID	Pack	Naming rule	Marking	hFE(1)	Qty(PCS)
CXT5401	SOT-89-3L	CXT5401 ↓ 产品名称 product name	5401	100-300	1000

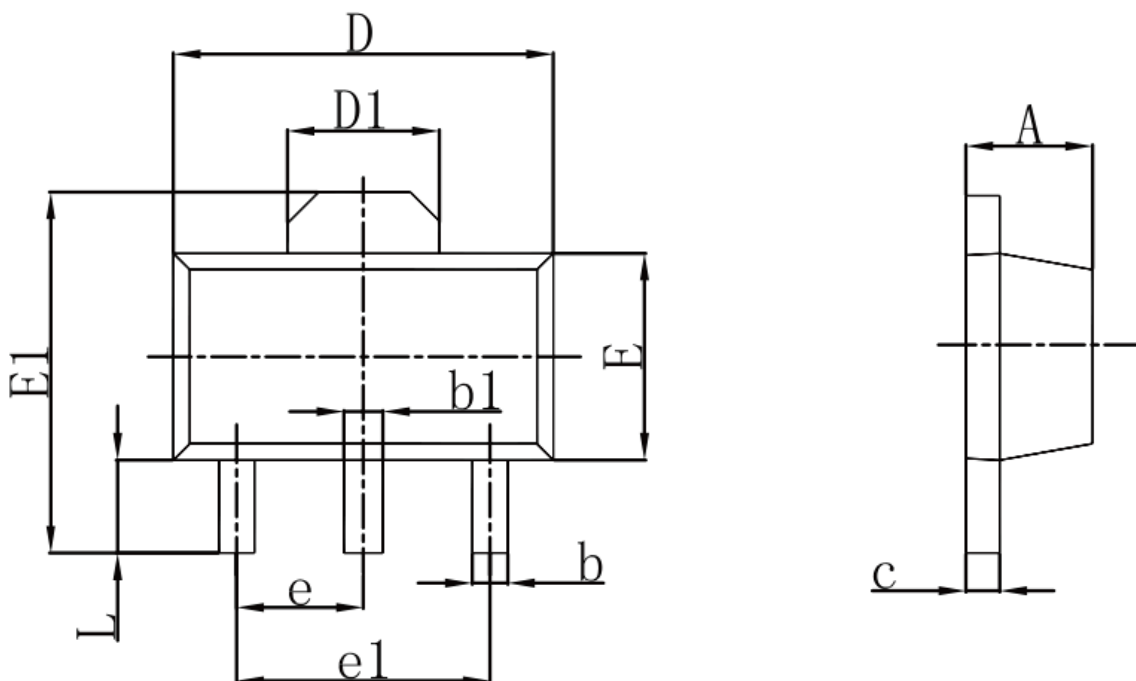


Typical Characteristics





SOT-89-3L Package Outline Dimensions



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