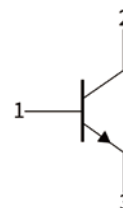


Features

- Switching and amplification in high voltage
Applications such as telephony
- Low current(max. 600mA)
- High voltage(max.180V)



SOT-89-3L



Equivalent Circuit

Absolute Maximum Ratings(T_A=25℃)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	180	V
V _{CE0}	Collector-Emitter Voltage	160	V
V _{EB0}	Emitter-Base Voltage	6	V
I _C	Collector Current	0.6	A
P _C	Collector Power Dissipation	0.5	W
T _J , T _{stg}	Operation Junction And Storage Temperature Range	-55 ~ +150	℃

Electrical Characteristics (T_A=25℃ unless otherwise specified)

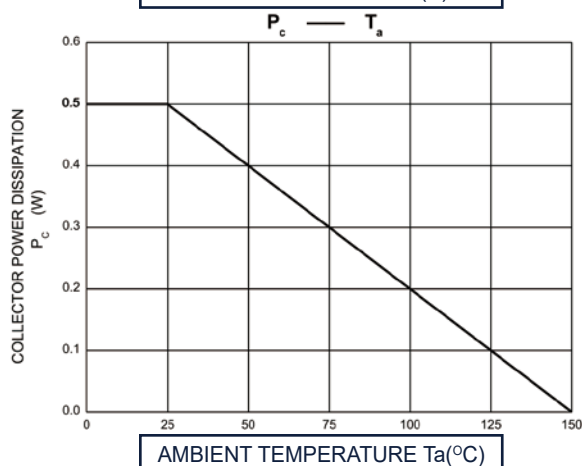
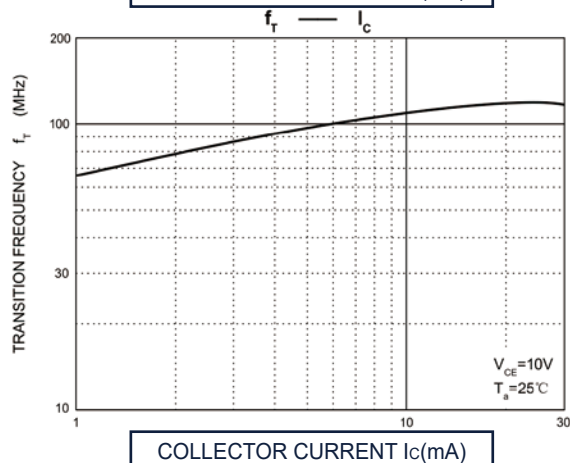
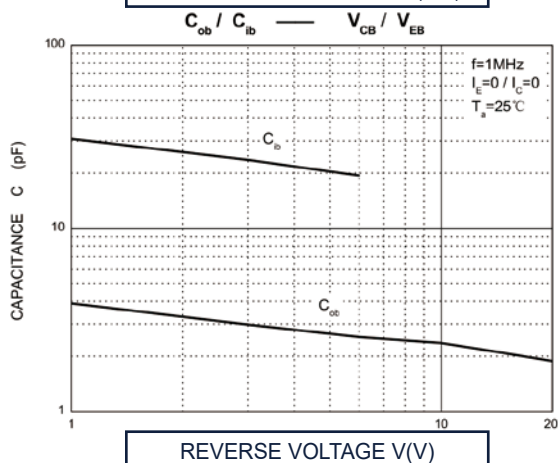
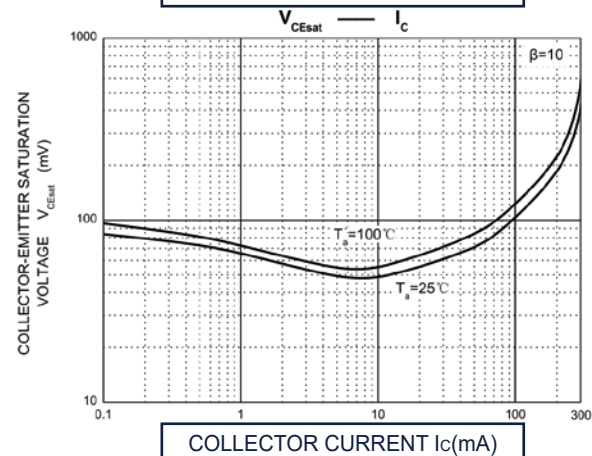
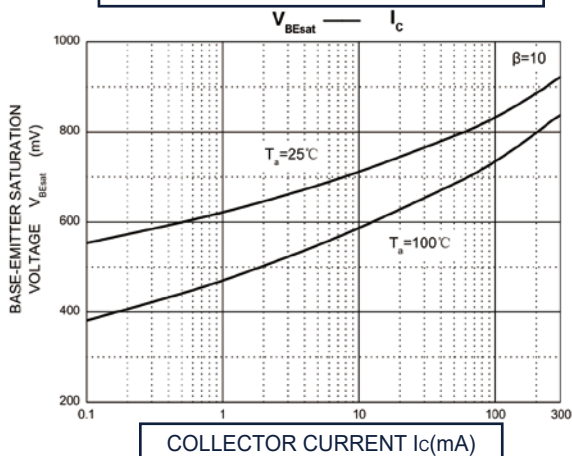
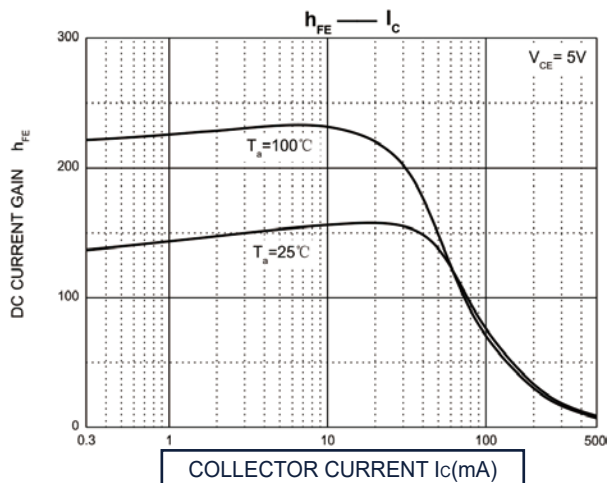
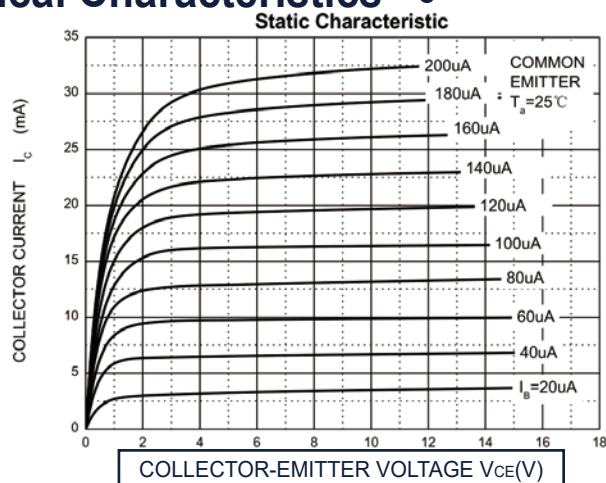
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
V _{(BR)CBO}	Collector-base breakdown voltage	I _C = 100μA, I _E =0	180			V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =1mA, I _B =0	160			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =10μA, I _C =0	6			V
I _{CBO}	Collector cut-off current	V _{CB} =120V, I _E =0			50	nA
I _{EBO}	Emitter cut-off current	V _{EB} =4V, I _C =0			50	nA
h _{FE(1)}	DC current gain	V _{CE} =5V, I _C =1mA	80			
h _{FE(2)}		V _{CE} =5V, I _C =10mA	100		300	
h _{FE(3)}		V _{CE} =5V, I _C =50mA	30			
V _{CE(sat)}	Collector-emitter saturation voltage	I _C =10mA, I _B =1mA			0.15	V
V _{CE(sat)}	Collector-emitter saturation voltage	I _C =50mA, I _B =5mA			0.2	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			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 =0.2mA, f=10Hzto15.7KHZ, R _s =10Ω			8	dB

Ordering information

Product ID	Pack	Naming rule	Marking	hFE(1)	Qty(PCS)
CXT5551	SOT-89-3L	CXT5551 产品名称 product name	1G6	100-300	1000

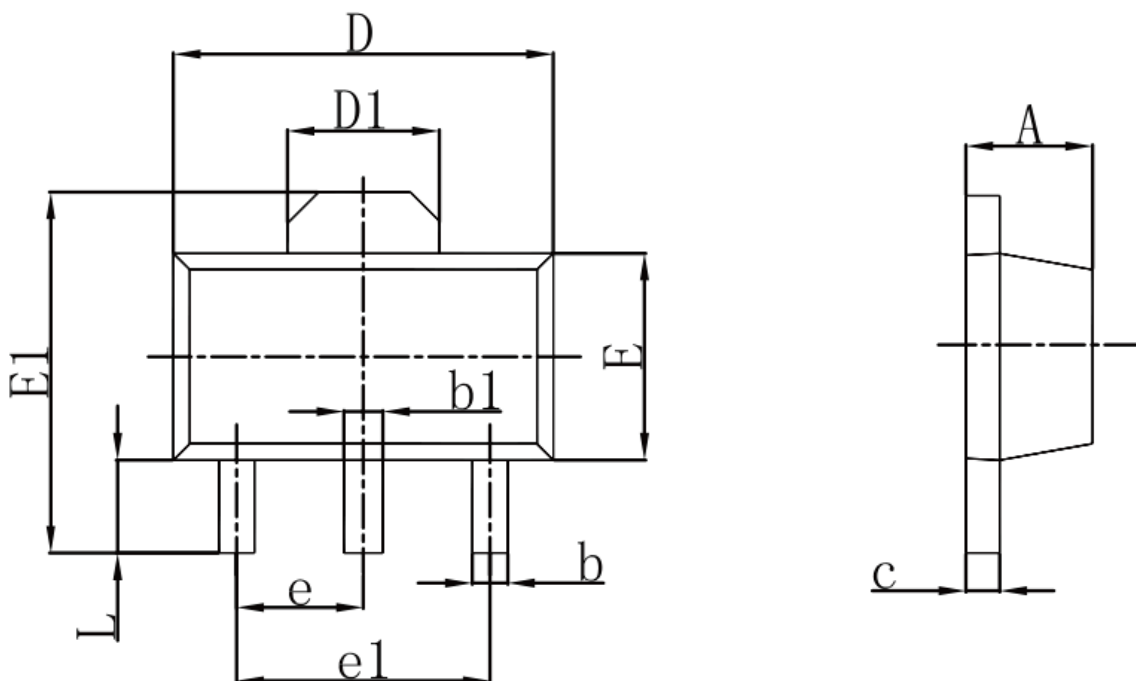


Typical Characteristics





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