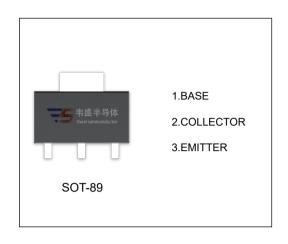


CXT5401 TRANSISTOR (PNP)

FEATURE

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



MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-160	V
V _{CEO}	Collector-Emitter Voltage	-150	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current -Continuous	-0.5	Α
Pc	Collector Power Dissipation	0.5	W
R _{θJA}	Thermal Resistance From JunctionTo Ambient	250	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~150	$^{\circ}$

ELECTRICAL CHARACTERISTICS(Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -100μA, I _E =0	-160			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	$I_C = -1$ mA, $I_B = 0$	-150			V
Emitter-base breakdown voltage	V _{(BR)EBO}	$I_E = -10 \mu A, I_C = 0$	-5			V
Collector cut-off current	I _{CBO}	V _{CB} = -120 V, I _E =0			-50	nA
Emitter cut-off current	I _{EBO}	V _{EB} = -3V, I _C =0			-50	nA
	h _{FE(1)}	V _{CE} = -5V, I _C =-1 mA	50			
DC current gain	h _{FE(2)}	V _{CE} = -5V, I _C = -10 mA	100		300	
	h _{FE(3)}	V _{CE} = -5V, I _C =-50 mA	50			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = -10 mA, I _B = -1 mA			-0.2	V
Conector-enlitter Saturation voltage	V _{CE(sat)}	I _C = -50 mA, I _B = -5 mA			-0.5	V
Page emitter ceturation voltage	V _{BE(sat)}	I _C = -10 mA, I _B = -1 mA			-1	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = -50 mA, I _B = -5 mA			-1	V
Transition frequency	f _T	V_{CE} = -10V, I_{C} = -10mA, f = 100MHz	100		300	MHz
Output Capacitance	C _{ob}	V _{CB} =-10V, I _E = 0,f=1MHz			6	pF
Noise Figure	NF	V_{CE} = -5.0V, I_{C} = -200 μ A, R_{S} = 10 Ω ,f =10Hz to15.7kHz			8	dB



