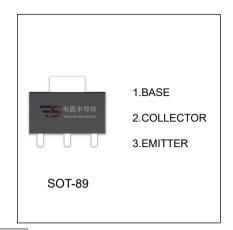


PXT3904 TRANSISTOR (NPN)

FEATURES

- Compliment to PXT3906
- Low current
- Low voltage



MAXIMUM RATINGS (T_a =25 $^{\circ}$ C unless otherwise noted)

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	60	V	
V _{CEO}	Collector-Emitter Voltage	40	V	
V _{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current -Continuous	0.2	Α	
Pc	Collector Power Dissipation 0.5			
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~150	$^{\circ}$ C	

ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =10μA,I _E =0	60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	40			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10μA,I _C =0	6			V
Collector cut-off current	I _{CBO}	$V_{CB}=30V,I_{E}=0$			0.05	μA
Emitter cut-off current	I _{EBO}	$V_{EB}=6V,I_{C}=0$			0.05	μΑ
Collector ut-off current	ICEX	Vce=30V,VBE(off)=3V			0.05	μA
	h _{FE(1)}	V _{CE} =1V,I _C =0.1mA	60			
	h _{FE(2)}	V _{CE} =1V,I _C =1mA	80			
DC current gain	h _{FE(3)}	V _{CE} =1V,I _C =10mA	100		300	
	h _{FE(4)}	V_{CE} =1 V , I_{C} =50 m A	60			
	h _{FE(5)}	V _{CE} =1V,I _C =100mA	30			
Collector-emitter saturation voltage	V _{CE(sat)1}	I _C =10mA,I _B =1mA			0.2	V
Conector-entitler Saturation voltage	V _{CE(sat)2}	I _C =50mA,I _B =5mA			0.3	V
Base emitter esturation voltage	V _{BE(sat)1}	I _C =10mA,I _B =1mA	0.65		0.85	V
Base-emitter saturation voltage	V _{BE(sat)2}	I _C =50mA,I _B =5mA			0.95	V
Transition frequency	f _T	V _{CE} =20V,I _C =10mA,f=100MHz	300			MHz
Collector capacitance	Cc	V _{CB} =5V,I _E =0,f=1MHz			4	pF
Emitter capacitance	Ce	V _{EB} =0.5V,I _C =0,f=1MHz			8	pF
Noise figure	NF	V_{CE} =5V, I_{c} =0.1mA,f=10Hz-15.7kHz, R_{S} =1K Ω			5	dB
Delay time	t _d	- - - - - - - - - - - - - - - - - - -			35	ns
Rise time	t _r				35	ns
Storage time	t _S				200	ns
Fall time	t _f				50	ns