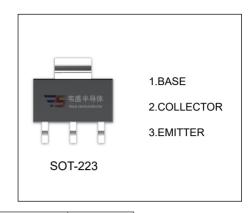


PZT3906 TRANSISTOR (PNP)

FEATURES

- Low Voltage and Low Current
- Complementary to PZT3904
- General Purpose Amplifier and Switch Application



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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-40	٧
V _{CEO}	Collector-Emitter Voltage	-40	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current	-200	mA
Pc	Collector Power Dissipation	1	W
R _{θJA}	Thermal Resistance From Junction To Ambient	125	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO} *	I _C =-0.01mA,I _E =0	-40			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 =0.01mA,I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-30V,I _E =0			-50	nA
Collector cut-off current	I _{CEX}	V _{CE} =-30V, V _{BE(off)} =-3V			-50	nA
	h _{FE(1)} *	V _{CE} =-1V, I _C =-0.1mA	60			
DC current gain	h _{FE(2)}	V _{CE} =-1V, I _C =-1mA	80			
bo current gam	h _{FE(3)}	V _{CE} =-1V, I _C =-10mA	100		300	
	h _{FE(4)}	V _{CE} =-1V, I _C =-50mA	60			
Collector-emitter saturation voltage	V _{CE(sat)} *	I _C =-10mA,I _B =-1mA			-0.25	V
Concetor-entitier suturation voltage		I _C =-50mA,I _B =-5mA			-0.4	V
Base-emitter saturation voltage	V _{BE(sat)} *	I _C =-10mA,I _B =-1mA	-0.65		-0.85	V
Base-emitter saturation voltage		I _C =-50mA,I _B =-5mA			-0.95	V
Transition frequency	f⊤	Vce=-20V,lc=-10mA, f=100MHz	250			MHz
Collector output capacitance	C _{ob}	V _{CB} =-5V, I _E =0, f=1MHz			4.5	pF
Emitter input capacitance	C _{ib}	V _{BE} =-0.5V, I _C =0, f=1MHz			10	pF
Delay time	t _d	V_{CC} =-3V, $V_{BE(off)}$ =-0.5V I_{C} =-10mA,			35	. ns
Rise time	t _r	I _{B1} = -I _{B2} =-1mA			35	
Storage time	t _s	V _{CC} =-3V, I _C =-10mA,			225	ns
Fall time	t _f	I _{B1} =-I _{B2} =-1mA			75	113

^{*}Pulse test: pulse width ≤300µs, duty cycle≤ 2.0%.



