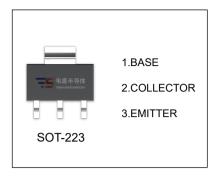


PZT2222A TRANSISTOR (NPN)

FEATURES

- Epitaxial planar die construction
- Complementary PNP Type available (PZT2907A)



MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

	Value	Unit	
V _{CBO}	Collector-Base Voltage	75	V
V _{CEO}	Collector-Emitter Voltage	40	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current -Continuous	600	mA
Pc	Collector Power Dissipation	1	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	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 10μ A,I _E =0	75		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = 10mA, 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} =60V, I _E =0		10	nA
Collector cut-off current	I _{CEX}	V _{CE} =60V,V _{BE(off)} =3V		10	nA
Emitter cut-off current	I _{EBO}	V_{EB} = 3V , I_{C} =0		10	nA
	h _{FE(1)}	V _{CE} =10V, I _C = 0.1mA	35		
	h _{FE(2)}	V _{CE} =10V, I _C = 1mA	50		
DC current gain	h _{FE(3)}	V _{CE} =10V, I _C = 10mA	75		
Do current gam	h _{FE(4)}	V _{CE} =10V, I _C = 150mA	100	300	
	h _{FE(5)}	V _{CE} =1V, I _C = 150mA	50		
	h _{FE(6)}	V _{CE} =10V, I _C = 500mA	40		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500mA, I _B = 50mA		1	V
Conector-enlitter saturation voltage	V _{CE(sat)}	I _C =150mA, I _B = 15mA		0.3	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =500mA, I _B = 50mA		2.0	V
Base-ellitter saturation voltage	V _{BE(sat)}	I _C =150mA, I _B =15mA		1.2	V
Transition frequency	f _T	V _{CE} =20V,I _C = 20mA, f=100MHz	300		MHz
Output Capacitance	C _{ob}	V _{CB} =10V, I _E = 0,f=1MHz		8	pF
Delay time	t _d	V _{CC} =30V, I _C =150mA V _{BE(off)} =0.5V,I _{B1} =15mA		10	ns
Rise time	t _r			25	ns
Storage time	t _S	V _{CC} =30V, I _C =150mA I _{B1} =-I _{B2} = 15mA		225	ns
Fall time	t _f			60	ns



