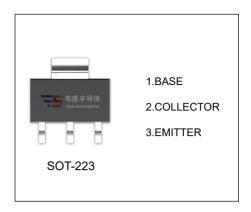


PZT4401 TRANSISTOR (NPN)

FEATURES

- Low Voltage and High Current
- Complementary to PZT4403
- Linear Amplifier and Switch Applications



MAXIMUM RATINGS (T_a=25°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	600	mA	
Pc	Collector Power Dissipation	1	W	
$R_{\theta JA}$	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 =0.1mA,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 =0.1mA,I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} =60V,I _E =0			50	nA
Emitter cut-off current	I _{EBO}	V _{EB} =6V, I _C =0			50	nA
	h _{FE(1)}	V _{CE} =1V, I _C =0.1mA	20			
DC ourrent gain	h _{FE(2)}	V _{CE} =1V, I _C =1mA	40			
DC current gain	h _{FE(3)}	V _{CE} =1V, I _C =10mA	80			
	h _{FE(4)}	V _{CE} =1V, I _C =150mA	100		300	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =150mA,I _B =15mA			0.4	V
Conector-entitler Saturation voltage		I _C =500mA,I _B =50mA			0.75	V
Page emitter esturation voltage	V _{BE(sat)}	I _C =150mA,I _B =15mA			0.95	V
Base-emitter saturation voltage		I _C =500mA,I _B =50mA			1.2	V
Transition frequency	f _T	VcE=10V,Ic=20mA, f=100MHz	250			MHz
Collector output capacitance	C _{ob}	V _{CB} =5V, I _E =0, f=1MHz			8	pF
Emitter input capacitance	C _{ib}	V _{EB} =0.5V, I _C =0, f=1MHz			30	pF



