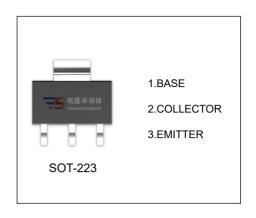


## PZTA06 TRANSISTOR (NPN)

## **FEATURES**

- Low Voltage and High Current
- General Purpose Amplifier Applications



## MAXIMUM RATINGS (T<sub>a</sub>=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V <sub>CBO</sub>	Collector-Base Voltage	80	V
V <sub>CEO</sub>	Collector-Emitter Voltage	80	V
V <sub>EBO</sub>	Emitter-Base Voltage	4	V
Ic	Collector Current	500	mA
Pc	Collector Power Dissipation	1	W
R <sub>θJA</sub>	Thermal Resistance From Junction To Ambient	125	°C/W
T <sub>J</sub> ,T <sub>stg</sub>	Operation Junction and Storage Temperature Range	-55~+150	°C

## **ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25℃ unless otherwise specified)**

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> =0.1mA,I <sub>E</sub> =0	80			V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub> *	I <sub>C</sub> =1mA,I <sub>B</sub> =0	80			V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =0.1mA,I <sub>C</sub> =0	4			V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> =80V,I <sub>E</sub> =0			100	nA
Collector cut-off current	I <sub>CEO</sub>	V <sub>CE</sub> =60V,I <sub>B</sub> =0			100	nA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> =3V, I <sub>C</sub> =0			100	nA
DC current gain	h <sub>FE(1)</sub>	V <sub>CE</sub> =1V, I <sub>C</sub> =10mA	100			
bo carrent gam	h <sub>FE(2)</sub>	V <sub>CE</sub> =1V, I <sub>C</sub> =100mA	100			
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =100mA,I <sub>B</sub> =10mA			0.25	V
Base-emitter voltage	V <sub>BE</sub>	V <sub>CE</sub> =1V, I <sub>C</sub> =100mA			1.2	V
Transition frequency	f <sub>T</sub>	VcE=2V,Ic=10mA, f=100MHz	100			MHz

<sup>\*</sup>Pulse test: pulse width ≤300µs, duty cycle≤ 2.0%.



