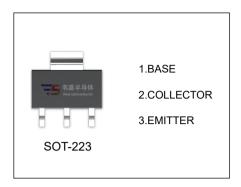


# PZTA42 TRANSISTOR (NPN)

### **FEATURES**

- · High breakdown voltage
- ·Low collector-emitter saturation voltage
- ·Complementary type: PZTA92(PNP)



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

Symbol Pa	ara meter	Value	Unit	
V <sub>CBO</sub>	Collector-Base Voltage	300	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	300	V	
V <sub>EBO</sub>	Emitter-Base Voltage	6	V	
Ic	Collector Current -Continuous	0.2	Α	
I <sub>CM</sub>	Collector Current -Pulsed	0.5	Α	
Pc	Collector Power Dissipation	1	W	
T <sub>J</sub> ,T <sub>stg</sub>	Operation Junction and Storage Temperature Range	-55~150	°C	

### **MARKING:**



# **ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)**

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> =100μA,I <sub>E</sub> =0	300			V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =1mA,I <sub>B</sub> =0	300			V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =100μA,I <sub>C</sub> =0	6			V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> =200V,I <sub>E</sub> =0			0.1	μA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> =6V,I <sub>C</sub> =0			0.1	μA
	h <sub>FE(1)</sub>	V <sub>CE</sub> =10V,I <sub>C</sub> =1mA	25			
DC current gain	h <sub>FE(2)</sub>	V <sub>CE</sub> =10V,I <sub>C</sub> =10mA	40			
	h <sub>FE(3)</sub>	V <sub>CE</sub> =10V,I <sub>C</sub> =30mA	40			
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =20mA,I <sub>B</sub> =2mA			0.5	V
Base-emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =20mA,I <sub>B</sub> =2mA			0.9	V
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> =20V,I <sub>C</sub> =10mA,f=100MHz	50			MHz
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> =20V,I <sub>E</sub> =0,f=1MHz			3	pF



