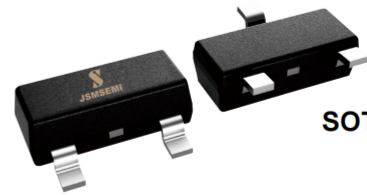


**■ Features**

- High breakdown voltage
- Low collector-emitter saturation voltage
- Complementary to PZTA92


**SOT-223**

1. BASE
2. COLLECTOR
3. EMITTER

**■ Absolute Maximum Ratings Ta = 25°C**

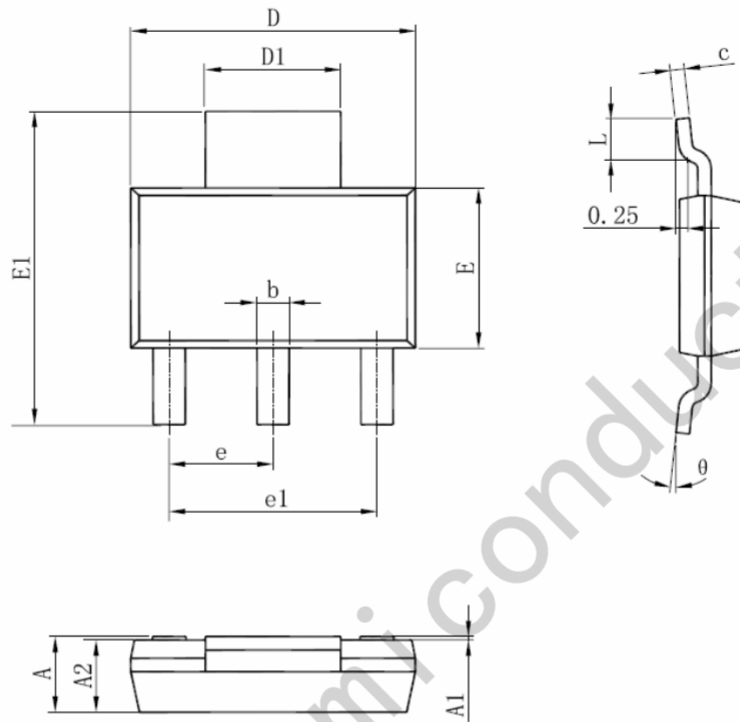
Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V <sub>CB0</sub>	300	V
Collector - Emitter Voltage	V <sub>CE0</sub>	300	
Emitter - Base Voltage	V <sub>EB0</sub>	6	
Collector Current - Continuous	I <sub>c</sub>	200	mA
Collector Current - Pulse	I <sub>cP</sub>	500	
Collector Power Dissipation	P <sub>c</sub>	1	W
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	-55 to 150	

**■ Electrical Characteristics Ta = 25°C**

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V <sub>CB0</sub>	I <sub>c</sub> = 100 μA, I <sub>E</sub> = 0	300			V
Collector- emitter breakdown voltage	V <sub>CE0</sub>	I <sub>c</sub> = 1 mA, I <sub>B</sub> = 0	300			
Emitter - base breakdown voltage	V <sub>EB0</sub>	I <sub>E</sub> = 100 μA, I <sub>c</sub> = 0	6			
Collector-base cut-off current	I <sub>cB0</sub>	V <sub>CB</sub> = 200 V, I <sub>E</sub> = 0			100	nA
Emitter cut-off current	I <sub>EB0</sub>	V <sub>EB</sub> = 6V, I <sub>c</sub> =0			100	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>c</sub> =20 mA, I <sub>B</sub> =2mA			0.5	V
Base - emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>c</sub> =20 mA, I <sub>B</sub> =2mA			0.9	
DC current gain	h <sub>FE(1)</sub>	V <sub>CE</sub> = 10V, I <sub>c</sub> = 1mA	25			
	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 output capacitance	C <sub>ob</sub>	V <sub>CB</sub> = 20V, I <sub>E</sub> = 0, f=1MHz			3	pF
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> = 20V, I <sub>c</sub> = 10mA, f=100MHz	50			MHz

## Package Information

SOT-223



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.520	1.800	0.060	0.071
A1	0.000	0.100	0.000	0.004
A2	1.500	1.700	0.059	0.067
b	0.660	0.820	0.026	0.032
c	0.250	0.350	0.010	0.014
D	6.200	6.400	0.244	0.252
D1	2.900	3.100	0.114	0.122
E	3.300	3.700	0.130	0.146
E1	6.830	7.070	0.269	0.278
e	2.300(BSC)		0.091(BSC)	
e1	4.500	4.700	0.177	0.185
L	0.900	1.150	0.035	0.045
θ	0°	10°	0°	10°

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