

■ 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

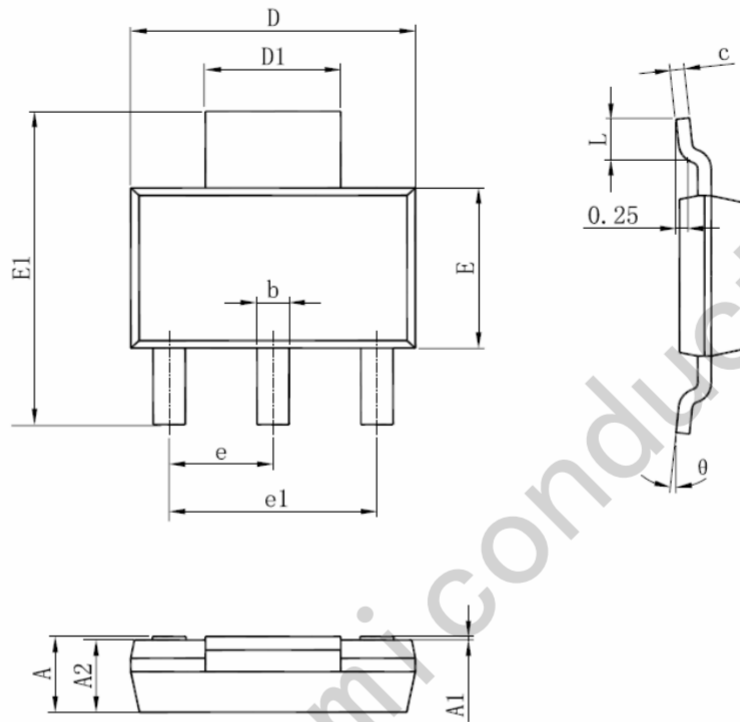
Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CB0}	300	V
Collector - Emitter Voltage	V _{CE0}	300	
Emitter - Base Voltage	V _{EB0}	6	
Collector Current - Continuous	I _c	200	mA
Collector Current - Pulse	I _{cP}	500	
Collector Power Dissipation	P _c	1	W
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	-55 to 150	

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V _{CB0}	I _c = 100 μA, I _E = 0	300			V
Collector- emitter breakdown voltage	V _{CE0}	I _c = 1 mA, I _B = 0	300			
Emitter - base breakdown voltage	V _{EB0}	I _E = 100 μA, I _c = 0	6			
Collector-base cut-off current	I _{cB0}	V _{CB} = 200 V, I _E = 0			100	nA
Emitter cut-off current	I _{EB0}	V _{EB} = 6V, I _c =0			100	
Collector-emitter saturation voltage	V _{CE(sat)}	I _c =20 mA, I _B =2mA			0.5	V
Base - emitter saturation voltage	V _{BE(sat)}	I _c =20 mA, I _B =2mA			0.9	
DC current gain	h _{FE(1)}	V _{CE} = 10V, I _c = 1mA	25			
	h _{FE(2)}	V _{CE} = 10V, I _c = 10mA	40			
	h _{FE(3)}	V _{CE} = 10V, I _c = 30mA	40			
Collector output capacitance	C _{ob}	V _{CB} = 20V, I _E = 0, f=1MHz			3	pF
Transition frequency	f _T	V _{CE} = 20V, I _c = 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°