■ Features

- Epitaxial planar die construction
- Complementary to PZT2907A

SOT-223

1. BASE
2. COLLECTOR
3. EMITTER

■ Absolute Maximum Ratings Ta = 25℃

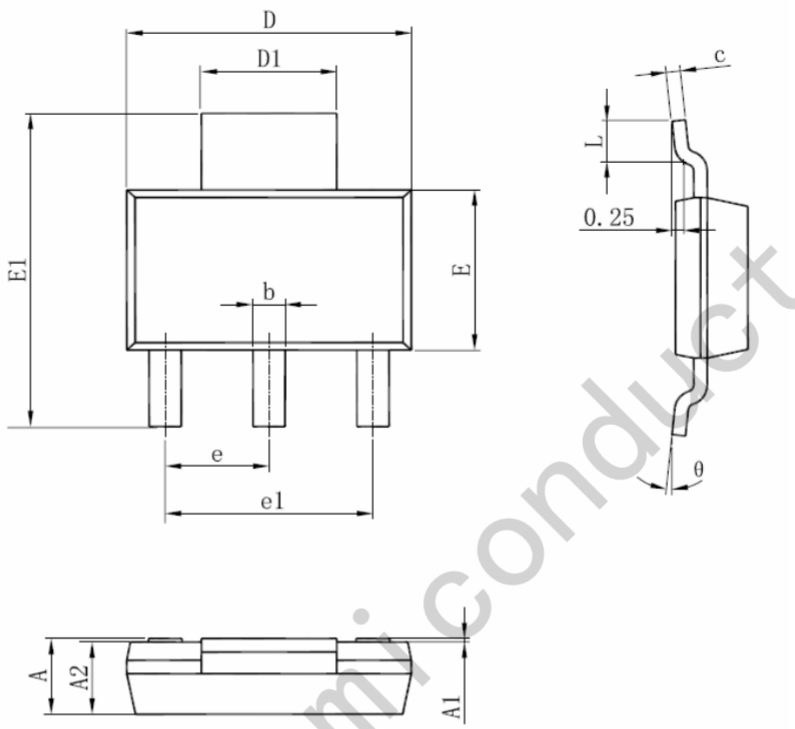
Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	75	V
Collector - Emitter Voltage	V_{CEO}	40	
Emitter - Base Voltage	V_{EBO}	6	
Collector Current - Continuous	I_C	600	mA
Collector Power Dissipation	P_C	1	W
Junction Temperature	T_J	150	℃
Storage Temperature Range	T_{stg}	-55 to 150	

■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CBO}	I_C= 100 μA, I_E= 0	75			V
Collector- emitter breakdown voltage	V_{CEO}	I_C= 10 mA, I_B= 0	40			
Emitter - base breakdown voltage	V_{EBO}	I_E= 100 μA, I_C= 0	6			
Collector-base cut-off current	I_{CBO}	V_{CB}= 75 V , I_E= 0			100	nA
Collector cut-off current	I_{CEX}	V_{CE}= 60 V , $V_{EB(off)}$=-3V			100	
Emitter cut-off current	I_{EBO}	V_{EB}= 6V , I_C=0			100	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=150 mA, I_B=15mA			0.3	V
		I_C= 500 mA, I_B= 50mA			1	
Base - emitter saturation voltage	$V_{BE(sat)}$	I_C=150 mA, I_B=15mA			1.2	
		I_C= 500 mA, I_B= 50mA			2	
DC current gain	$h_{FE(1)}$	V_{CE}= 10V, I_C= 0.1mA	35			
	$h_{FE(2)}$	V_{CE}= 10V, I_C= 1mA	50			
	$h_{FE(3)}$	V_{CE}= 10V, I_C= 10mA	75			
	$h_{FE(4)}$	V_{CE}= 10V, I_C= 150mA	100		300	
	$h_{FE(5)}$	V_{CE}= 1V, I_C= 150mA	50			
	$h_{FE(6)}$	V_{CE}= 10V, I_C= 500mA	40			
Delay time	t_d	V_{CC}=30V, $V_{BE(off)}$=-0.5V I_C=150mA, I_{B1}=15mA			10	nS
Rise time	t_r				25	
Storage time	t_s	V_{CC}=30V, I_C=150mA, I_{B1}=-I_{B2}=15mA			225	
Fall time	t_f				60	
Collector output capacitance	C_{ob}	V_{CB}= 10V, I_E= 0,f=1MHz			8	pF
Transition frequency	f_T	V_{CE}= 20V, I_C= 20mA,f=100MHz	300			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°

单击下面可查看定价，库存，交付和生命周期等信息

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