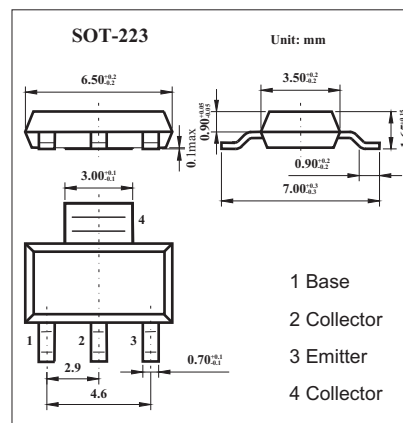


PZT3906

■ Features

- Collector Power Dissipation: $P_c=1W$
- Collector Current: $I_c= -200mA$
- Complementary NPN Type Available(PZT3904)



■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Collector- Base Voltage	V_{CB0}	-40	V
Collector - Emitter Voltage	V_{CE0}	-40	V
Emitter - Base Voltage	V_{EB0}	-5	V
Collector Current- Continuous	I_c	-200	mA
Power Dissipation	P_D	1	W
Junction and Storage Temperature	T_J, T_{stg}	-55 to 150	$^\circ C$

■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Test conditons	Min	Typ	Max	Unit
Collector - base breakdown voltage	$V_{(BR)CBO}$	$I_c = -10 \mu A, I_E = 0$	-40			V
Collector - emitter breakdown voltage	$V_{(BR)CEO}$	$I_c = -1 mA, I_B = 0$	-40			V
Emitter- base breakdown voltage	$V_{(BR)EBO}$	$I_E = -10 \mu A, I_c = 0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB} = -30V, I_E = 0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5V, I_c = 0$			-0.1	μA
DC current gain	h_{FE}	$V_{CE} = -1V, I_c = -10mA$	100		300	
		$V_{CE} = -1V, I_c = -50mA$	60			
Collector- emitter saturation voltage	$V_{CE(sat)}$	$I_c = -50 mA, I_B = -5mA$			-0.4	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_c = -50 mA, I_B = -5mA$			-0.95	V
Delay time	t_d	$V_{CC} = -3.0V, V_{BE} = 0.5V$			35	ns
Rise time	t_r	$I_c = -10mA, I_{B1} = -1.0mA$			35	
Storage time	t_s	$V_{CC} = -3.0V, I_c = -10mA$			225	ns
Fall time	t_f	$I_{B1} = I_{B2} = -1.0mA$			75	
Transition frequency	f_T	$V_{CE} = -20V, I_c = -10mA, f = 100MHz$	250			MHz

■ Marking

Marking	3906
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