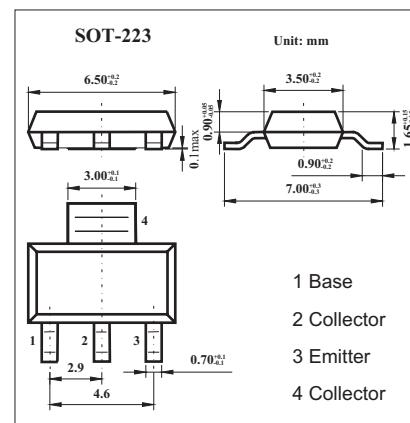


PZT2222A

■ Features

- High current (max. 600 mA)
- Low voltage (max. 40 V).



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	75	V
Collector-emitter voltage	V _{CEO}	40	V
Emitter-base voltage	V _{EBO}	6	V
Collector current	I _C	600	mA
Peak collector current	I _{CM}	800	mA
Peak base current	I _{BM}	200	mA
Total power dissipation Ta≤25°C	P _{tot}	1	W
Storage temperature	T _{stg}	-65 to +150	°C
Junction temperature	T _j	150	°C
Operating ambient temperature	T _{amb}	-65 to +150	°C
Thermal resistance from junction to ambient	R _{th(j-a)}	109	K/W
Thermal resistance from junction to soldering point	R _{th(j-s)}	28	K/W

PZT2222A

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector cutoff current	ICBO	I _E = 0; V _{CB} = 60 V			10	nA
		I _E = 0; V _{CB} = 60 V; T _j = 125 °C			10	µ A
Emitter cutoff current	IEBO	I _C = 0; V _{EB} = 5 V			10	nA
DC current gain	h _{FE}	I _C = 0.1 mA; V _{CE} = 10 V	35			
		I _C = 1 mA; V _{CE} = 10 V	50			
		I _C = 10 mA; V _{CE} = 10 V	75			
		I _C = 10 mA; V _{CE} = 10 V; T _a = -55 °C	35			
		I _C = 150 mA; V _{CE} = 1 V *	50			
		I _C = 150 mA; V _{CE} = 10 V *	100		300	
		I _C = 500 mA; V _{CE} = 10 V *	40			
collector-emitter saturation voltage	V _{CESat}	I _C = 150 mA; I _B = 15 mA			300	mV
		I _C = 500 mA; I _B = 50 mA			1	V
base-emitter saturation voltage	V _{BESat}	I _C = 150 mA; I _B = 15 mA	0.6		1.2	V
		I _C = 500 mA; I _B = 50 mA			2	V
Collector capacitance	C _c	I _E = i _E = 0; V _{CB} = 10 V; f = 1 MHz			8	pF
Emitter capacitance	C _e	I _C = i _C = 0; V _{EB} = 500 mV; f = 1 MHz			25	pF
Turn-on time	t _{on}	I _{Con} = 150 mA; I _{Bon} = 15 mA; I _{Boff} = -15 mA			35	ns
Delay time	t _d				10	ns
Rise time	t _r				25	ns
Turn-off time	t _{off}				250	ns
Storage time	t _s				200	ns
Fall time	t _f				60	ns
Transition frequency	f _T	I _C = 20 mA; V _{CE} = 20 V; f = 100 MHz	300			MHz

* Pulse test: t_p ≤ 300 µs; δ ≤ 0.02.

■ Marking

Marking	2222A
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