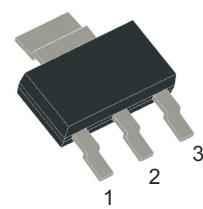


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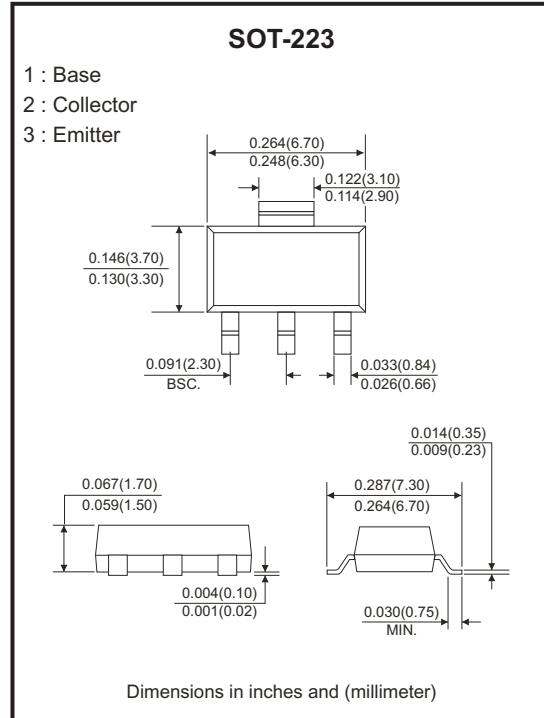
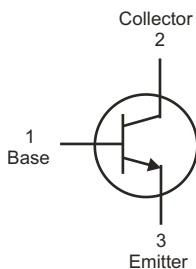
PZTA44-G (NPN) RoHS Device



Features

- High collector-emitter voltage.
- Low current.

Diagram



Maximum Ratings (at TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-base voltage	V _{CBO}	400	V
Collector-emitter voltage	V _{CEO}	400	V
Emitter-base voltage	V _{EBO}	6	V
Collector current-continuous	I _C	200	mA
Collector current-pulsed	I _{CM}	300	mA
Collector power dissipation	P _C	1	W
Junction temperature range	T _J	150	°C
Storage temperature range	T _{STG}	-65 to +150	°C

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REV: A

General Purpose Transistor

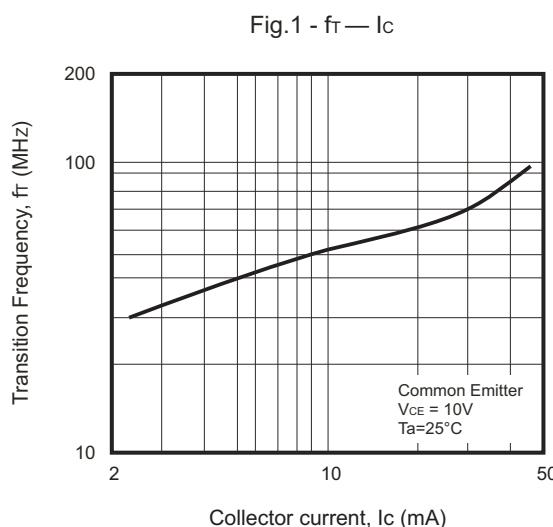
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Electrical Characteristics (Ta=25°C, unless otherwise specified)

Parameter	Conditions	Symbol	Min.	Max.	Unit
Collector-base breakdown voltage	Ic=100µA, Ib=0	V _{(BR)CBO}	400		V
Collector-emitter breakdown voltage	Ic=1mA, Ib=0	V _{(BR)CEO*}	400		V
Emitter-base breakdown voltage	Ie=100µA, Ic=0	V _{(BR)EBO}	6		V
Collector cut-off current	V _{CB} =400V, Ie=0	I _{CBO}		0.1	µA
Emitter cut-off current	V _{EB} =4V, Ic=0	I _{EBO}		0.1	µA
DC current gain	V _{CE} =10V, Ic=1mA	h _{FE(1)*}	40		
	V _{CE} =10V, Ic=10mA	h _{FE(2)*}	50	200	
	V _{CE} =10V, Ic=50mA	h _{FE(3)*}	45		
	V _{CE} =10V, Ic=100mA	h _{FE(4)*}	40		
Collector-emitter saturation voltage	Ic=1mA, Ib=0.1mA	V _{CE(sat)1*}		0.4	V
	Ic=10mA, Ib=1mA	V _{CE(sat)2*}		0.5	V
	Ic=50mA, Ib=5mA	V _{CE(sat)3*}		0.75	V
Base-emitter saturation voltage	Ic=10mA, Ib=1mA	V _{BE(sat)*}		0.75	V
Transition frequency	V _{CE} =10V, Ic=10mA, f=100MHz	f _T	20		MHz
Collector capacitance	V _{CB} =20V, Ie=0, f=1MHz	C _c		7	pF
Emitter capacitance	V _{EB} =0.5V, Ic=0, f=1MHz	C _e		130	pF

*Pulse test: pulse width 300µs, duty cycle 2.0%

RATING AND CHARACTERISTIC CURVES (PZTA44-G)



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RATING AND CHARACTERISTIC CURVES (PZTA44-G)

Fig.2 - Static Characteristic

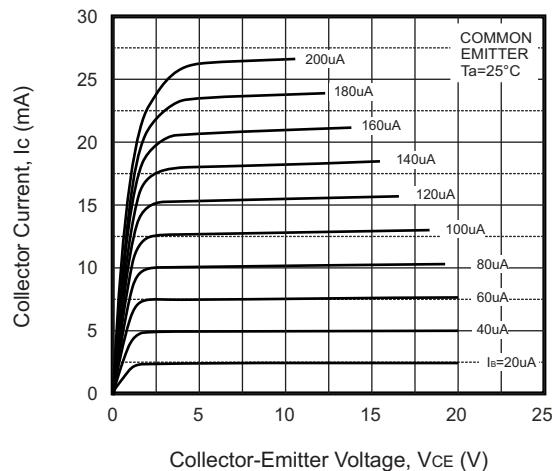


Fig.3 - h_{FE} — I_c

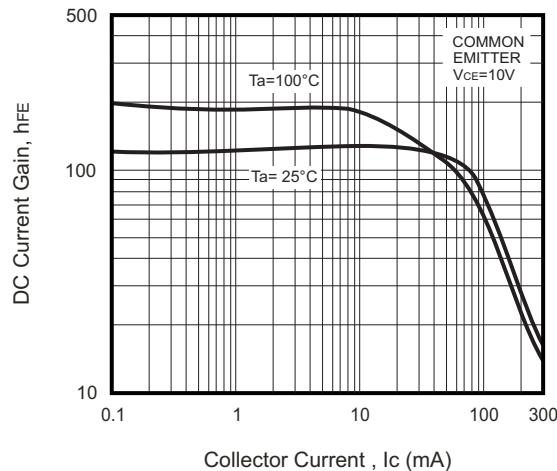


Fig.4 - V_{BEsat} — I_c

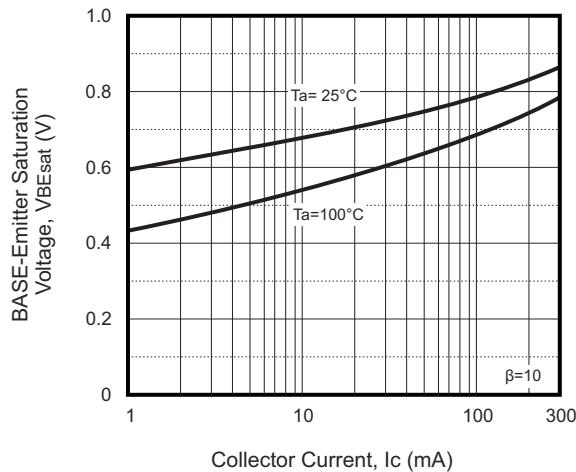


Fig.5 - V_{CESat} — I_c

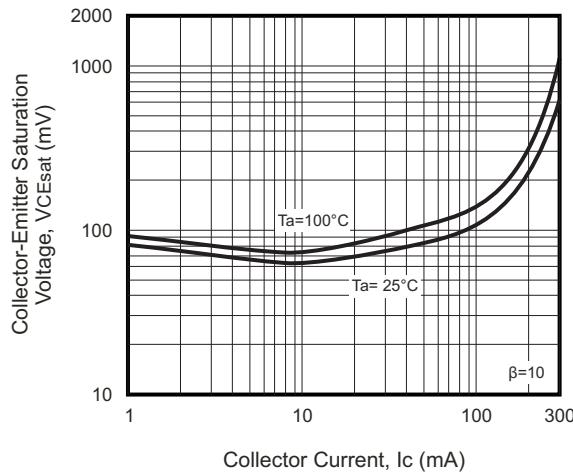


Fig.6 - C_{ob}/C_{ib} — V_{CB}/V_{EB}

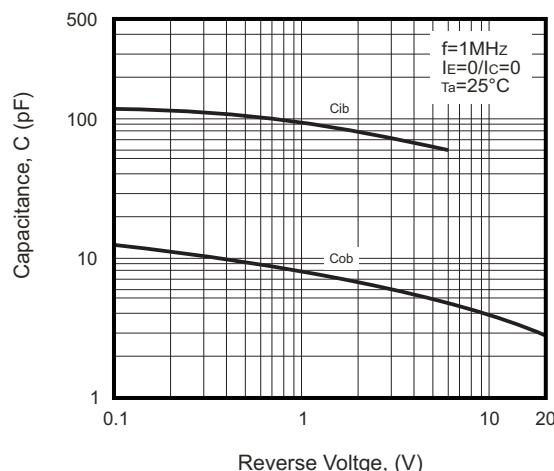
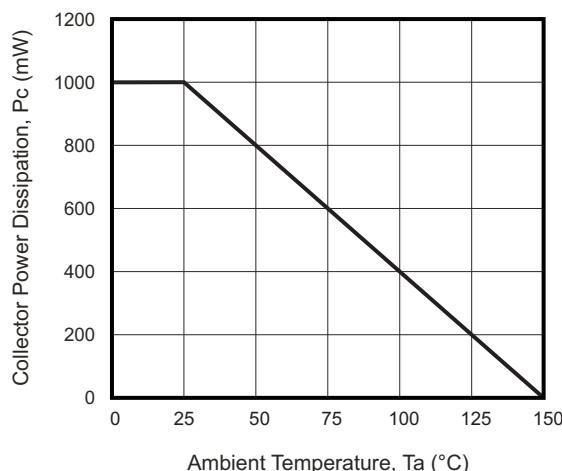
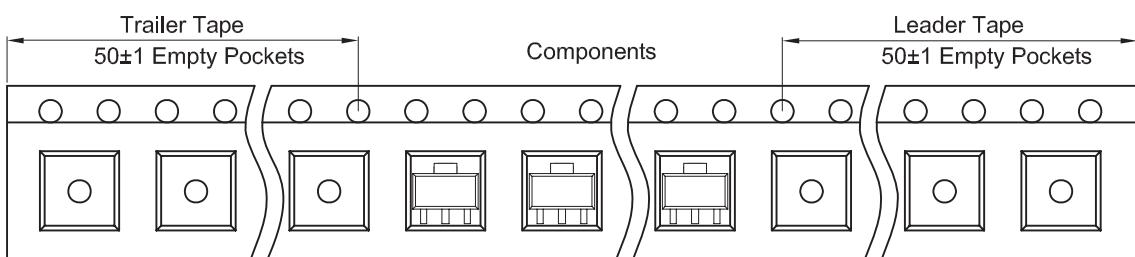
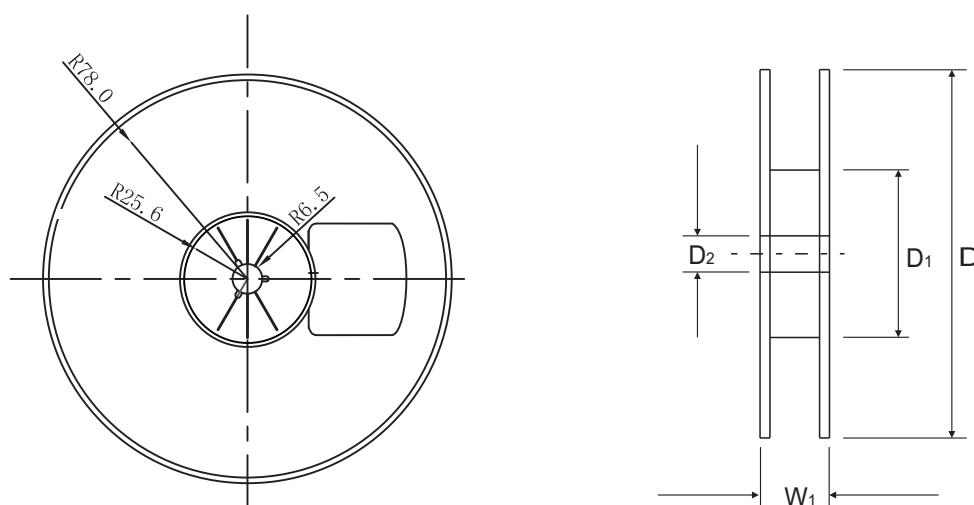
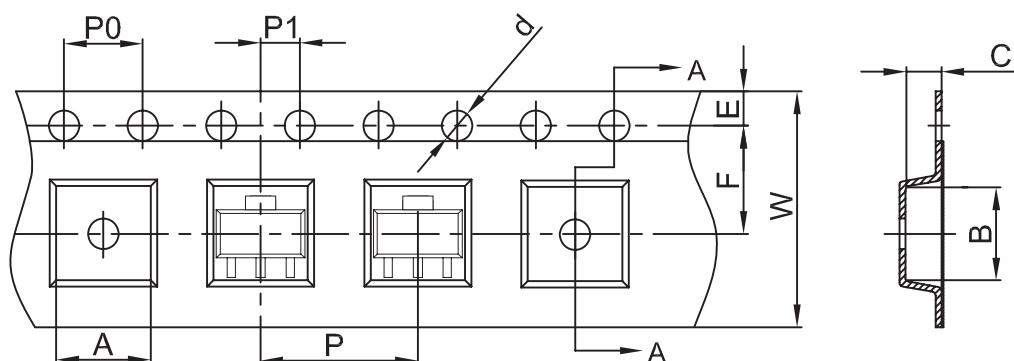


Fig.7 - P_c — T_a



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Reel Taping Specification



SOT-223	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	6.765 ± 0.10	7.335 ± 0.10	1.88 ± 0.10	1.50 ± 0.10	180.00 ± 1.00	60.00 ± 1.00	13.00 ± 1.00
	(inch)	0.266 ± 0.004	0.289 ± 0.004	0.074 ± 0.004	0.059 ± 0.004	7.087 ± 0.039	2.362 ± 0.039	0.512 ± 0.039

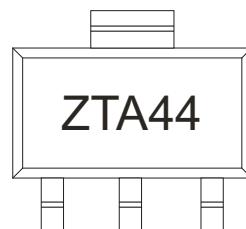
SOT-223	SYMBOL	E	F	P	P0	P1	W	W1
	(mm)	1.75 ± 0.10	5.50 ± 0.10	8.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	12.00 ± 0.10	16.50 ± 1.00
	(inch)	0.069 ± 0.004	0.217 ± 0.004	0.315 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.472 ± 0.004	0.650 ± 0.039

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REV: A

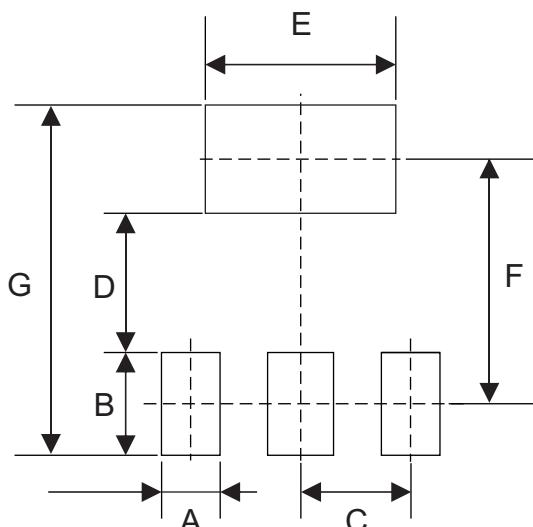
Marking Code

Part Number	Marking Code
PZTA44-G	ZTA44



Suggested PAD Layout

SIZE	SOT-223	
	(mm)	(inch)
A	0.75	0.030
B	1.60	0.063
C	2.30	0.091
D	4.55	0.179
E	3.40	0.134
F	6.15	0.242
G	7.75	0.305



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
SOT-223	1,000	7

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