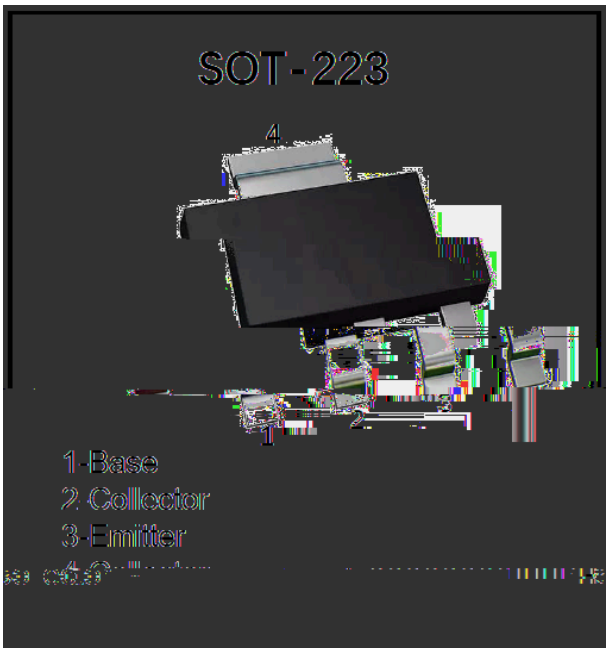
PNP Transistor



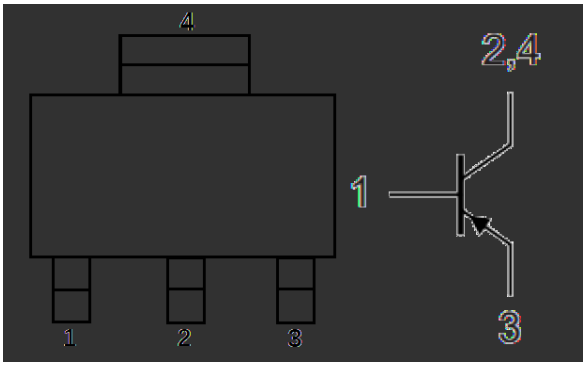
Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1

Mechanical Data

- **Package**: SOT-223
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:** ZT2907A

√Equivalent circuit



√Maximum Ratings

	Symbol	Unit	Conditions	Value
Minimum Collector-Emitter Voltage	V_{CEO}	V	I_C=-10mA, I_B=0	-60
Minimum Collector-Base Voltage	V_{CBO}	V	I_C=-100uA, I_E=0	-60
Minimum Emitter-Base Voltage	V_{EBO}	V	I_E=-100uA, I_C=0	-5
Collector Current	I_C	A		-0.6
Power Dissipation	P_D	W		1
Thermal Resistance From Junction To Ambient	R_{JA}	/W		125
Operation Junction Temperature	T_j			-55 to +150
Storage Temperature	T_{stg}			-55 to +150

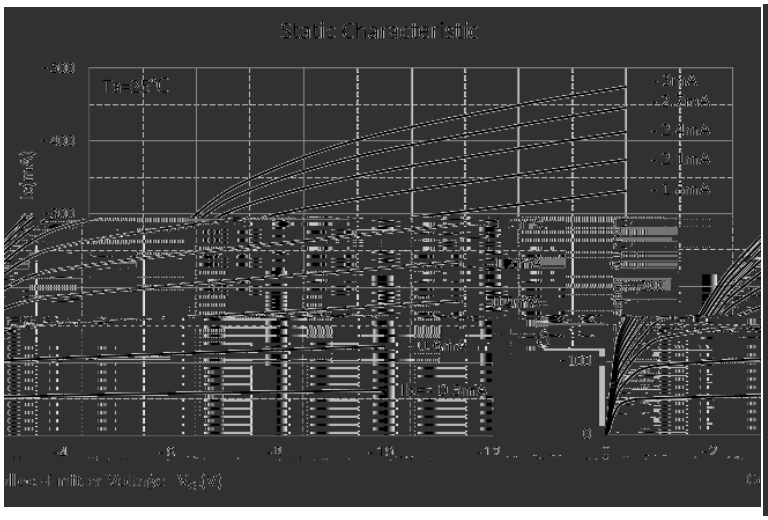
√**Electrical Characteristics** (Ta=25 unless otherwise noted)

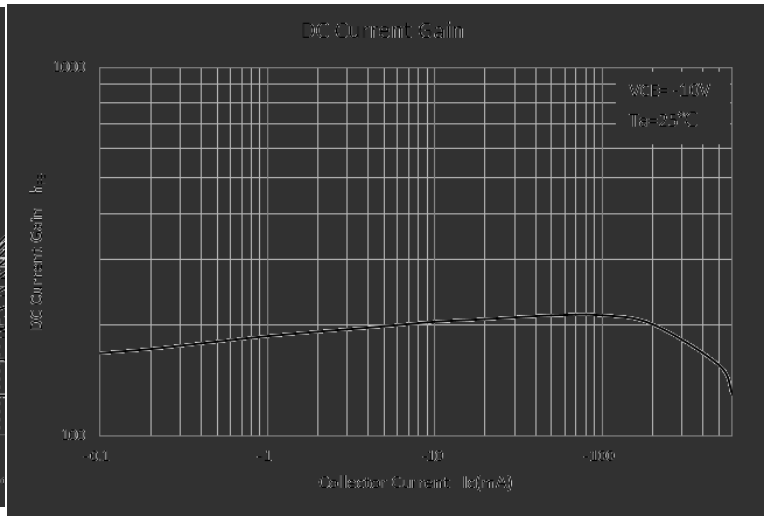
Item	Symbol	Unit	Conditions	Min	Max
Collector-base breakdown voltage	V_{CBO}	V	IC=-100 A,IE=0	-60	-
Collector-emitter breakdown voltage	V_{CEO}	V	IC =-10mA,IB=0	-60	-
Emitter-base breakdown voltage	V_{EBO}	V	IE=-100 A,IC=0	-5	-
Collector-base cut-off current	I_{CBO}	nA	VCB=-50V,IE=0	-	-10
Collector-emitter cut-off current	I_{EBO}	nA	VEB=-5V,IC=0	-	-50
DC current gain	h_{FE}		VCE=-10V,IC=-0.1mA	75	-
	h_{FE}		VCE=-10V,IC=-1mA	100	-
	h_{FE}		VCE=-10V,IC=-10mA	100	-
	h_{FE}		VCE=-10V,IC=-150mA	100	300
	h_{FE}		VCE=-10V,IC=-500mA	50	
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	IC=-150mA,IB=-15mA	-	-0.4
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	IC=-500mA,IB=-50mA	-	-1.6
Base-emitter saturation voltage	$V_{BE(sat)*}$	V	IC=-150mA,IB=-15mA	-	-1.3
Base-emitter saturation voltage	$V_{BE(sat)*}$	V	IC=-500mA,IB=-50mA	-	-2.6
Transition frequency	Ft	MHz	VCE=-20V,IC=-50mA,f=100MHz	200	-
Delay time	td	ns	VCC=-30V,IC=-150mA, IB1=-15mA	-	10
Rise time	tr	ns		-	25
Storage time	ts	ns	VCC=-6V,IC=-150mA, IB1= IB2=-15mA	-	225
Fall time	tf	ns		-	60

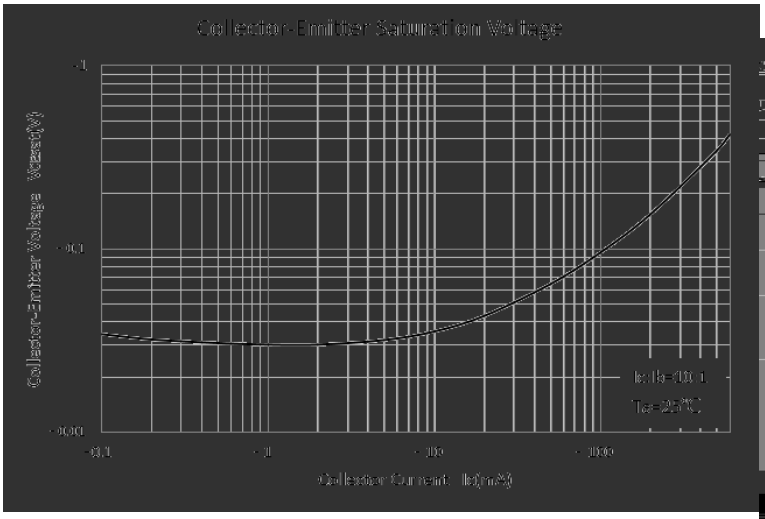
√**Ordering Information** (Example)

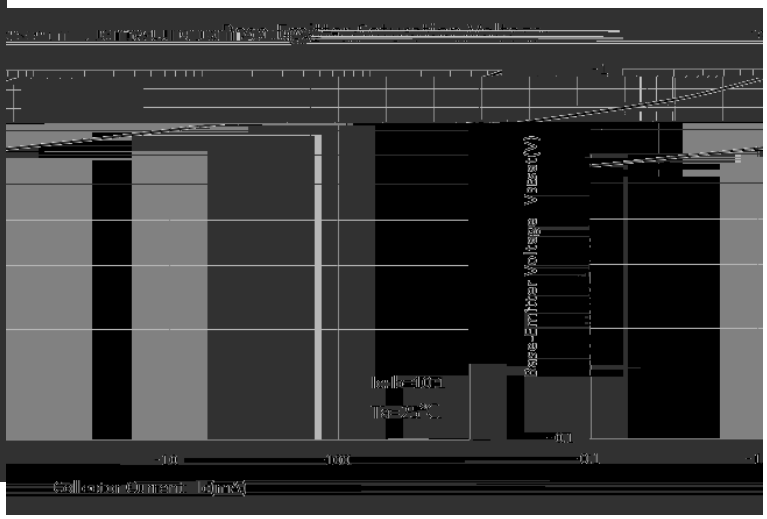
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
PZT2907A	F2	Approximate 0.11	2500	5000	25000	13” reel

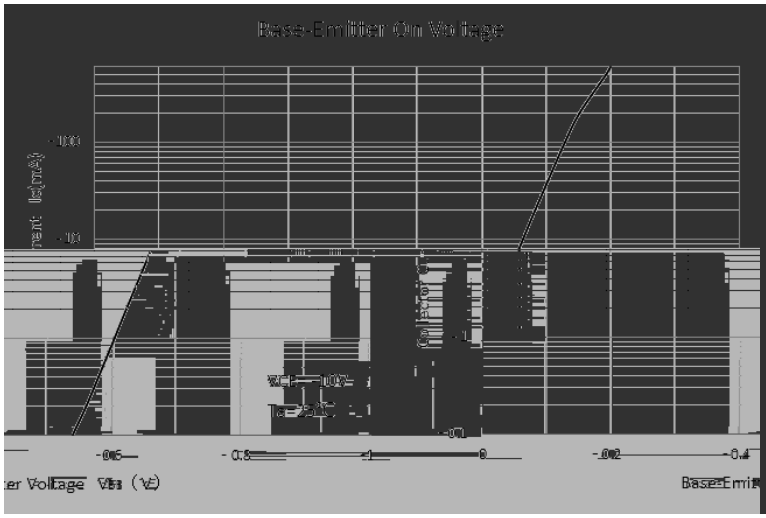
√**Characteristics** (Typical)

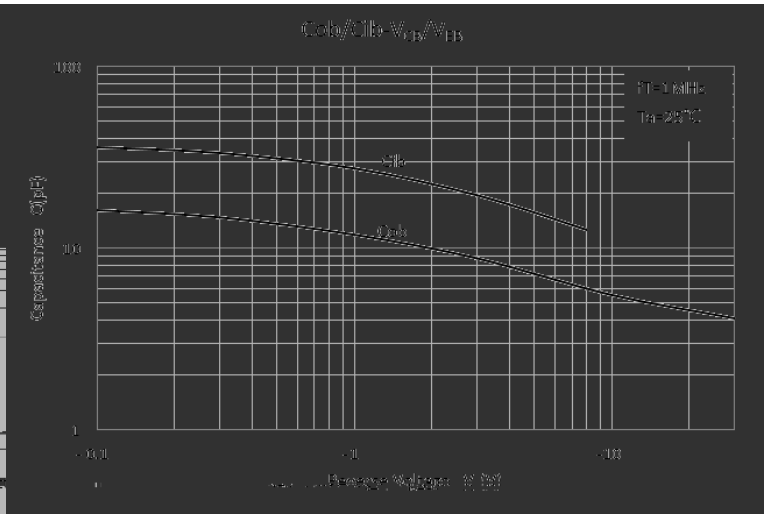


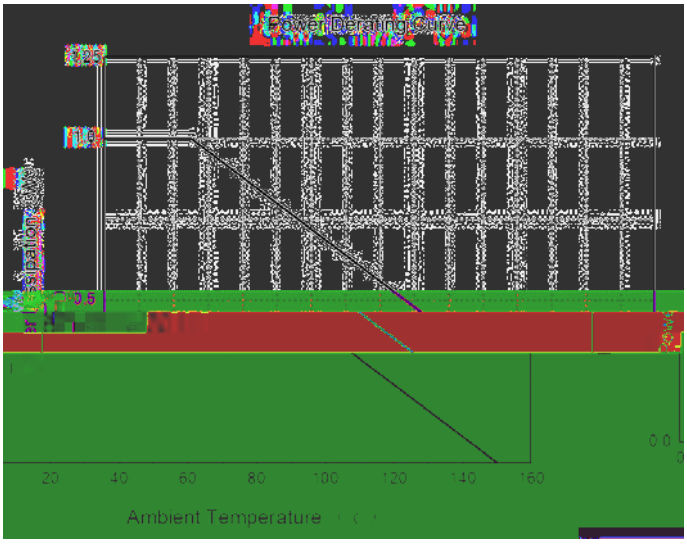




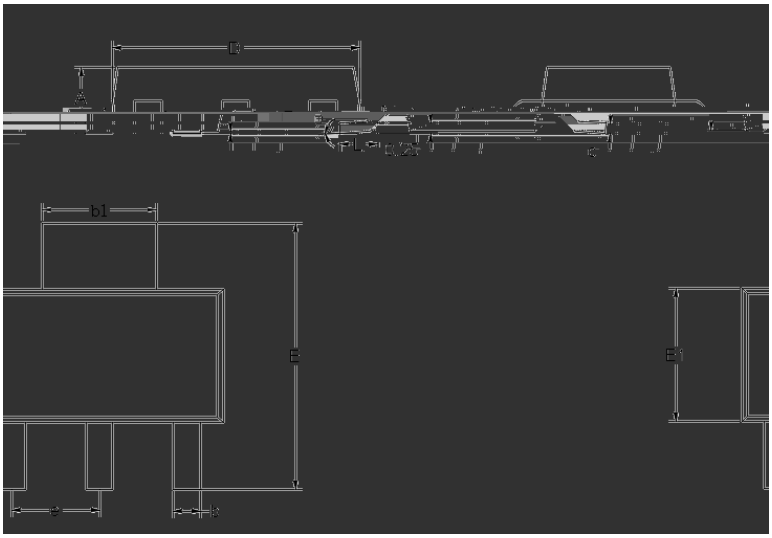






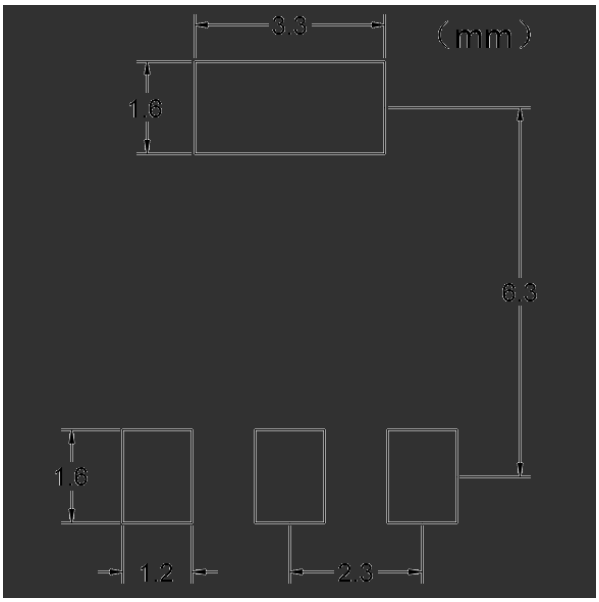


√SOT-223 Package Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.0551	0.0670	1.4000	1.7000
A1	0.0008	0.0039	0.0200	0.1000
b	0.0256	0.0330	0.6500	0.8400
b1	0.1140	0.1220	2.9000	3.1000
c	0.0090	0.0138	0.2300	0.3500
c1	0.0090	0.0130	0.2300	0.3300
D	0.2701	0.2854	6.8600	7.2500
E	0.2701	0.2854	6.8600	7.2500
E1	0.1732	0.1811	4.4000	4.6000
e	0.0905 BSC		2.3000 BSC	
e1	0.1795	0.1850	4.5600	4.7000
L	0.0236	0.0394	0.6000	1.0000
θ	0°	8°	0°	8°

SOT-223 Suggested Pad Layout



Disclaimer

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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