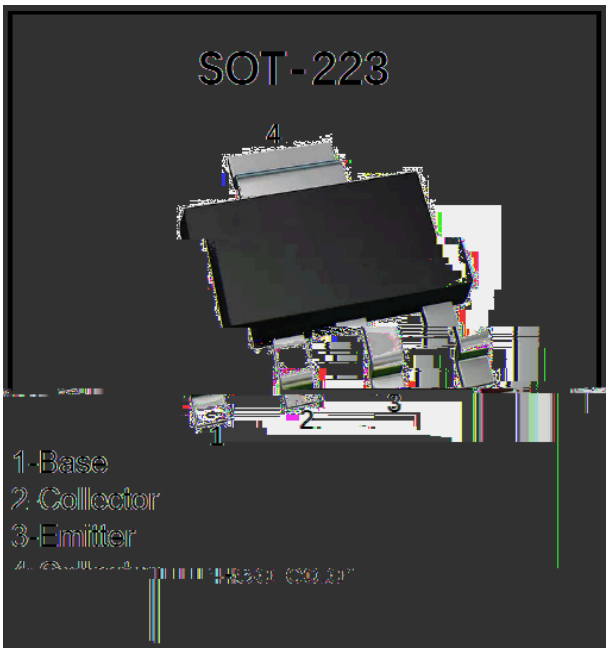
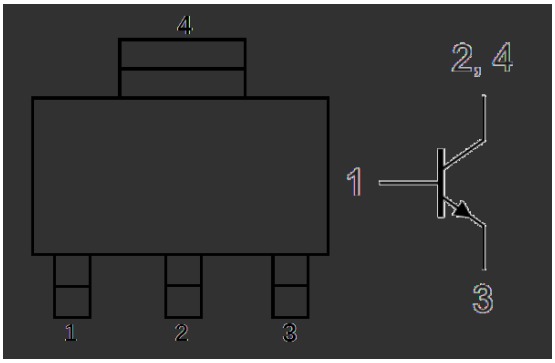
RoHS
COMPLIANT



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

- : SOT-223
- Tin plated leads, solderable per J-STD-002 and JESD22-B102
- ZT3904

■



■ (Ta=25 unless otherwise noted)

Minimum Collector-Emitter Voltage	V_{CEO}	V	I_C=1mA, I_B=0	40
Minimum Collector-Base Voltage	V_{CBO}	V	I_C=10uA, I_E=0	60
Minimum Emitter-Base Voltage	V_{EBO}	V	I_E=10uA, I_C=0	6
Collector Current	I_C	A		0.2
Power Dissipation	P_D	W		1
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	/W		125
Operation Junction Temperature	T_j			-55 to +150
Storage Temperature	T_{stg}			-55 to +150

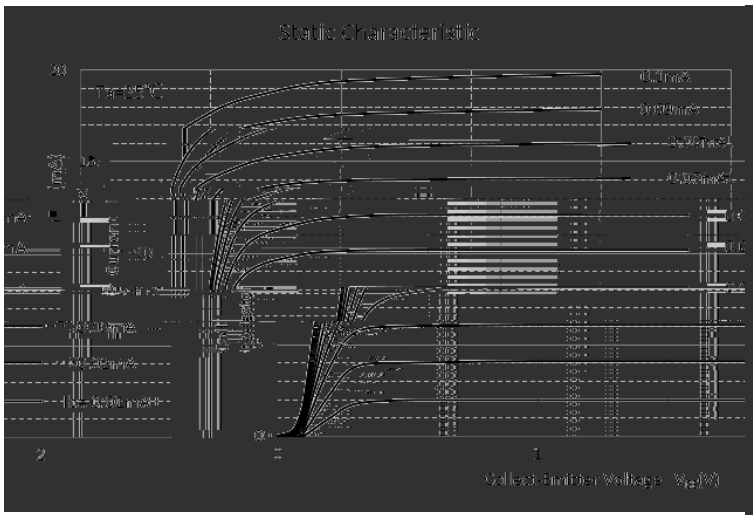
■ (Ta=25 unless otherwise noted)

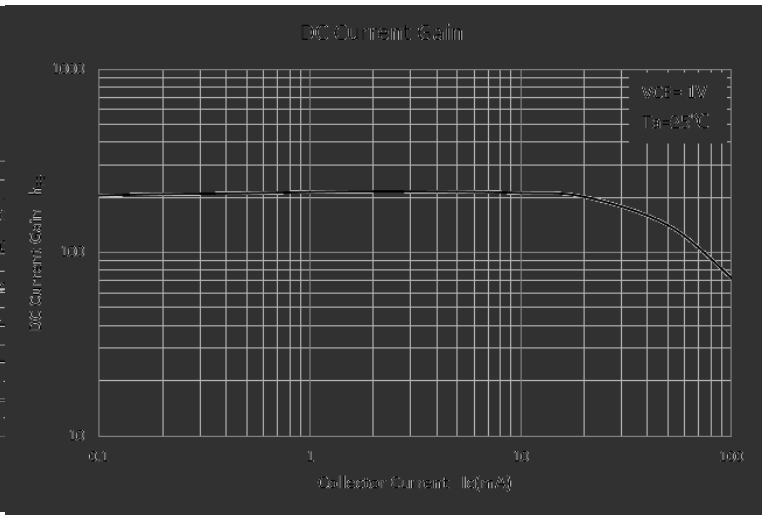
Collector-base breakdown voltage	V_{CBO}	V	IC=10uA,IE=0	60	-	-
Collector-emitter breakdown voltage	V_{CEO*}	V	IC =1mA,IB=0	40	-	-
Emitter-base breakdown voltage	V_{EBO}	V	IE=10μA,IC=0	6	-	-
Collector-emitter cut-off current	I_{CEX}	nA	VCE=30V, VEB=3V	-	-	50
Collector-base cut-off current	I_{CBO}	nA	VCB=30V, IE =0	-	-	50
Emitter-base cut-off current	I_{EBO}	nA	VEB=5V, IC =0	-	-	50
DC current gain	h_{FE}		VCE=1V,IC=0.1mA	40	-	-
	h_{FE}		VCE=1V,IC=1mA	70	-	-
	h_{FE}		VCE=1V,IC=10mA	100	-	300
	h_{FE}		VCE=1V,IC=50mA	60	-	-
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	IC=10mA,IB=1mA	-	-	0.2
			IC=50mA,IB=5mA	-	-	0.3
Base-emitter saturation voltage	$V_{BE(sat)}$	V	IC=10mA,IB=1mA	0.65	-	0.85
			IC=50mA,IB=5mA	-	-	0.95
Transition frequency	f_T	MHz	VCE=20V,IC=10mA,f=100MHz	300	-	-
Output Capacitance	Cob	pF	VCB=5V, IE=0, f=1MHz	-	-	4
Delay time	td	ns	V_{CC}=3.0Vdc,V_{BE}=0.5Vdc, I_C=10mAdc, I_{B1}=1.0mAdc	-	-	35
Rise time	tr	ns		-	-	35
Storage time	ts	ns	V_{CC}=3.0Vdc,I_C=10mAdc, I_{B1}=-I_{B2}=1.0mAdc	-	-	200
Fall time	tf	ns		-	-	50

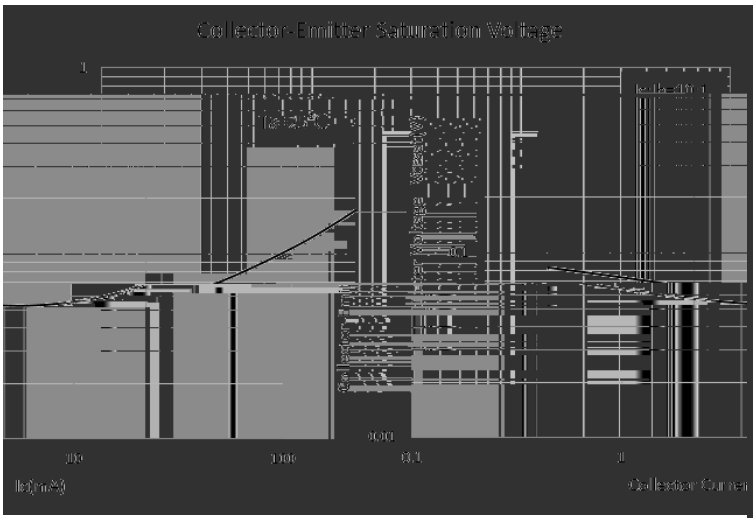
■ (Example)

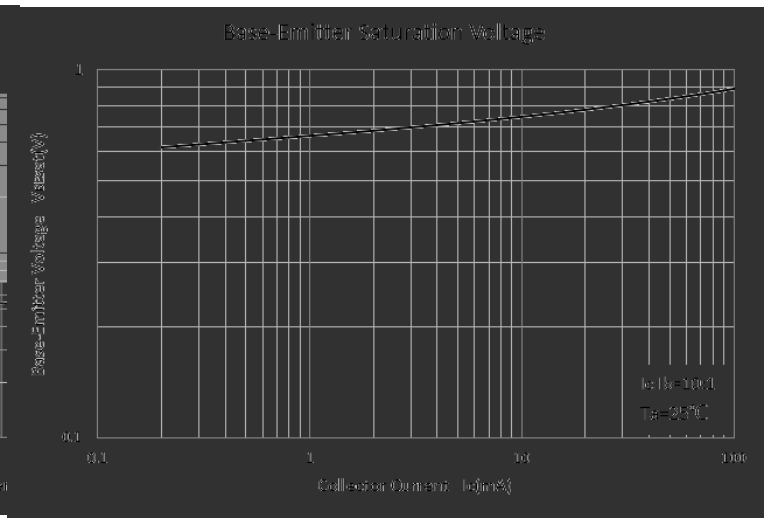
PZT3904	F2	Approximate 0.11	2500	5000	25000	13” reel

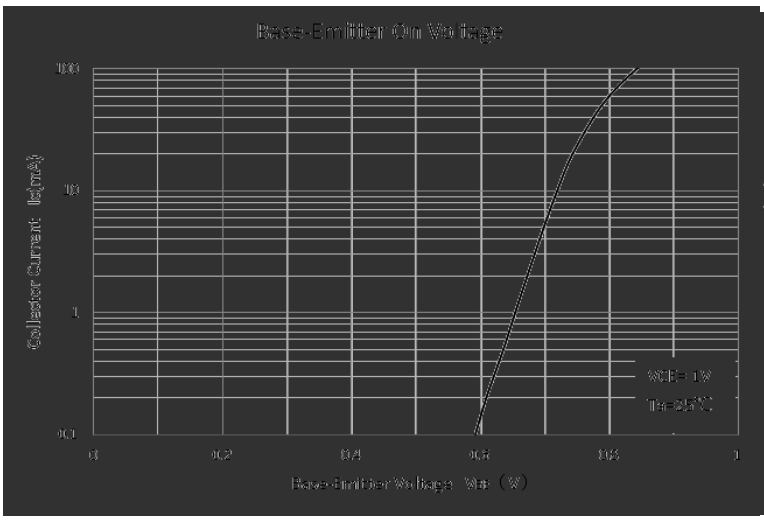
■ (Typical)

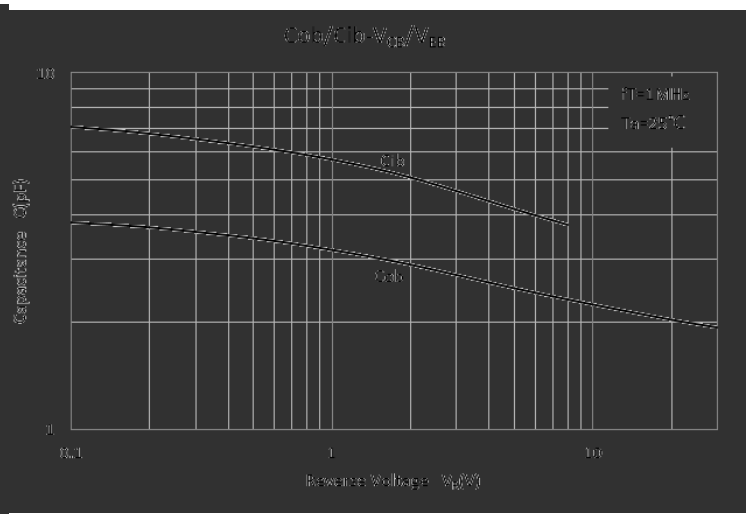

Static Characteristic
Collector Current Ic(mA)
Collector-Emitter Voltage Vce(V)

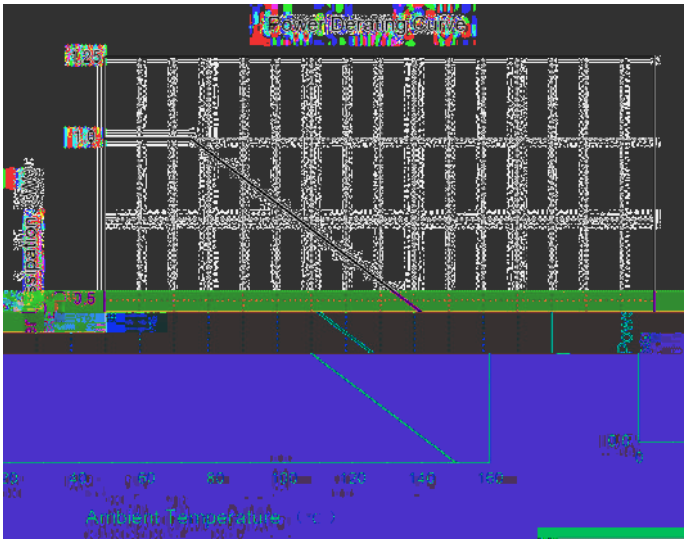

DC Current Gain
VCE=1V
Ta=25℃
DC Current Gain hFE
Collector Current Ic(mA)


Collector-Emitter Saturation Voltage
Ic/Ib=10
Ta=25℃
Collector-Emitter Saturation Voltage Vce(sat)(V)
Ic(mA)
Collector Current

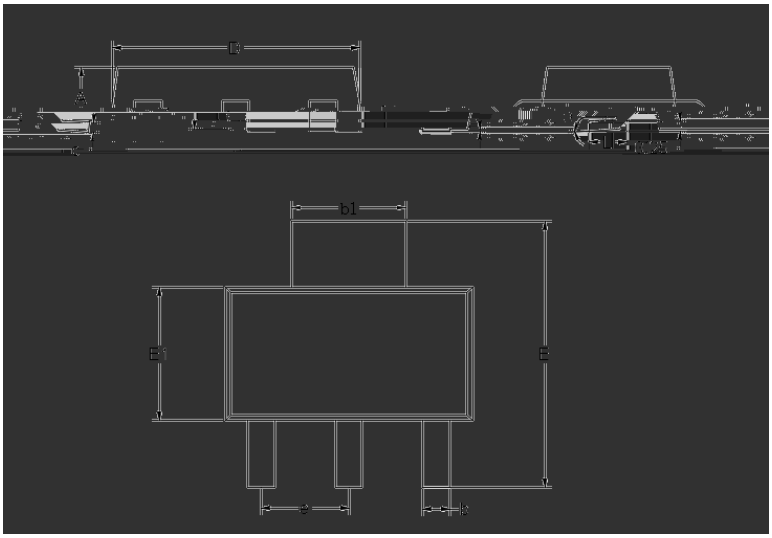

Base-Emitter Saturation Voltage
Ic/Ib=10
Ta=25℃
Base-Emitter Saturation Voltage Vbe(sat)(V)
Collector Current Ic(mA)


Base-Emitter On Voltage
VCE=1V
Ta=25℃
Collector Current Ic(mA)
Base-Emitter Voltage Vbe (V)

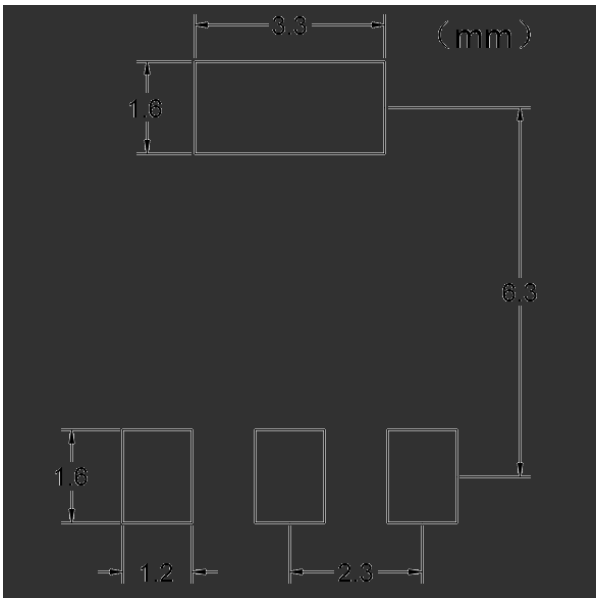

Cob/Cib-Vcb/Veb
f=1MHz
Ta=25℃
Cib
Cob
Capacitance (pF)
Reverse Voltage (V)



■



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.0591	0.0670	1.5000	1.7000
A1	0.0008	0.0039	0.0200	0.1000
b	0.0259	0.0330	0.6600	0.8400
b1	0.1140	0.1220	2.9000	3.1000
c	0.0090	0.0138	0.2300	0.3500
D	0.2480	0.2638	6.3000	6.7000
E	0.1535	0.1693	3.9000	4.3000
e	0.0512 (TYP)		1.3000 (TYP)	
L	0.0138	0.0256	0.3500	0.6500
θ	0°	10°	0°	10°



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