



Micro Commercial Components



Micro Commercial Components  
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# PZTA42

## NPN Plastic-Encapsulate Transistors

### Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- High Voltage Driver Application
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"
- Marking: ZTA42

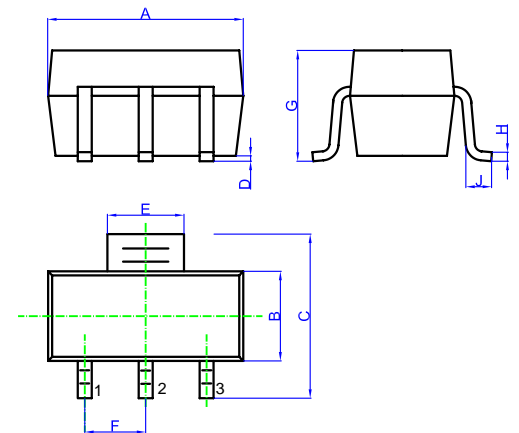
### Maximum Ratings

Symbol	Rating	Value	Unit
V <sub>CEO</sub>	Collector-Emitter Voltage	300	V
V <sub>CBO</sub>	Collector-Base Voltage	300	V
V <sub>EBO</sub>	Emitter-Base Voltage	6.0	V
I <sub>C</sub>	Collector Current DC	0.2	A
I <sub>CM</sub>	Collector Current -Pulsed	0.5	A
P <sub>C</sub>	Collector Power Dissipation	1.0	W
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	-55 to +150	°C

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
<b>OFF CHARACTERISTICS</b>					
V <sub>CBO</sub>	Collector-Base Voltage (I <sub>C</sub> =100µAdc, I <sub>E</sub> =0)	300	---	---	Vdc
V <sub>CEO</sub>	Collector-Emitter Voltage (I <sub>C</sub> =1mAdc, I <sub>B</sub> =0)	300	---	---	Vdc
V <sub>EBO</sub>	Emitter-Base Voltage (I <sub>E</sub> =100µAdc, I <sub>C</sub> =0)	6.0	---	---	Vdc
I <sub>CBO</sub>	Collector Cutoff Current (V <sub>CB</sub> =400Vdc, I <sub>E</sub> =0)	---	---	100	nAdc
I <sub>EBO</sub>	Emitter Cutoff Current (V <sub>EB</sub> =4.0Vdc, I <sub>C</sub> =0)	---	---	100	nAdc
h <sub>FE(1)</sub>	DC Current Gain (V <sub>CE</sub> =10Vdc, I <sub>C</sub> =1mAdc)	25	---	---	---
h <sub>FE(2)</sub>	DC Current Gain (V <sub>CE</sub> =10Vdc, I <sub>C</sub> =10mAdc)	40	---	---	---
h <sub>FE(3)</sub>	DC Current Gain (V <sub>CE</sub> =10Vdc, I <sub>C</sub> =30mAdc)	40	---	---	---
V <sub>CE(sat)</sub>	Collector-Emitter (I <sub>C</sub> =20mA, I <sub>B</sub> =2mA)	---	---	0.5	Vdc
V <sub>BE(sat)</sub>	Base-Emitter Voltage (I <sub>C</sub> =20mA, I <sub>B</sub> =2mA)	---	---	0.9	Vdc
f <sub>T</sub>	Transition Frequency (V <sub>CE</sub> =20Vdc, I <sub>C</sub> =10mAdc, ff=100MHz)	50	---	---	MHz
C <sub>ob</sub> C <sub>e</sub>	Collector output capacitance (V <sub>CB</sub> =20Vdc, I <sub>E</sub> =0, f=1MHz)	---	---	3	pF

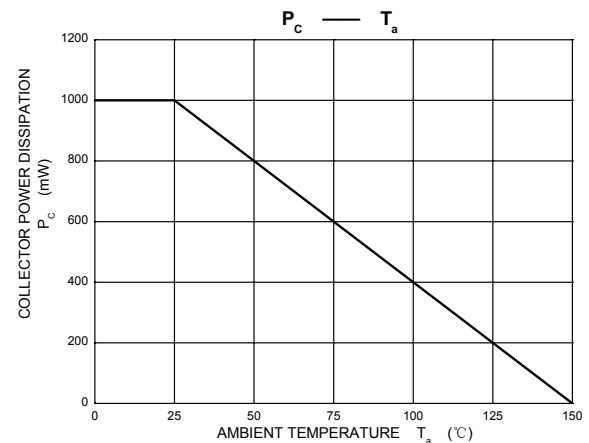
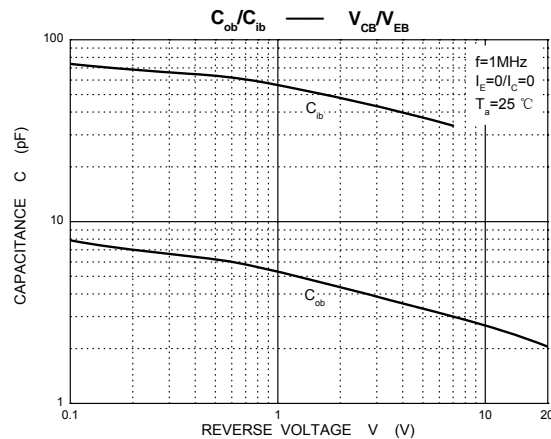
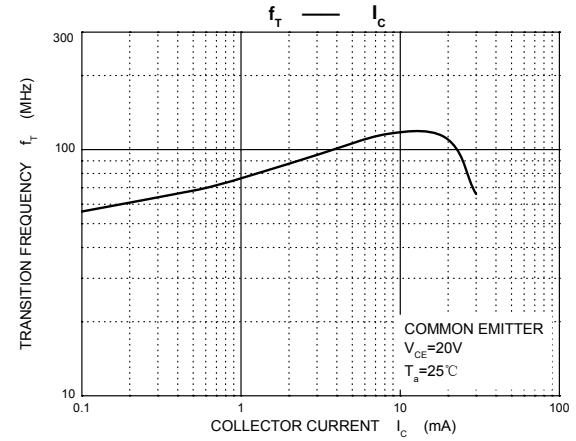
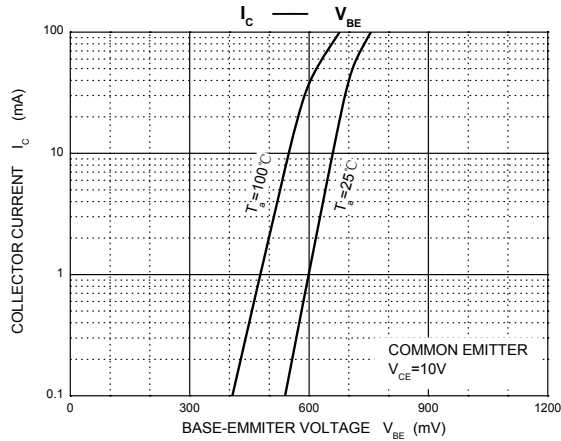
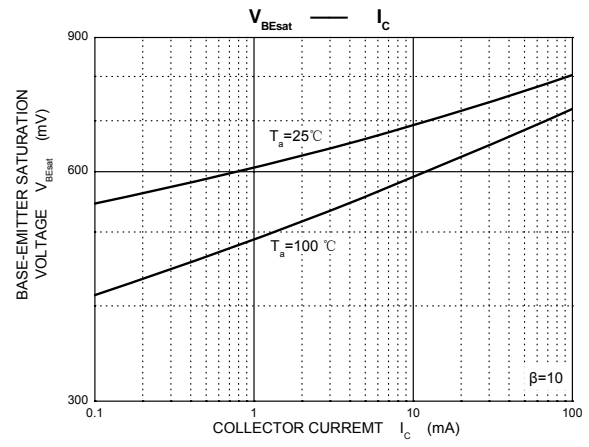
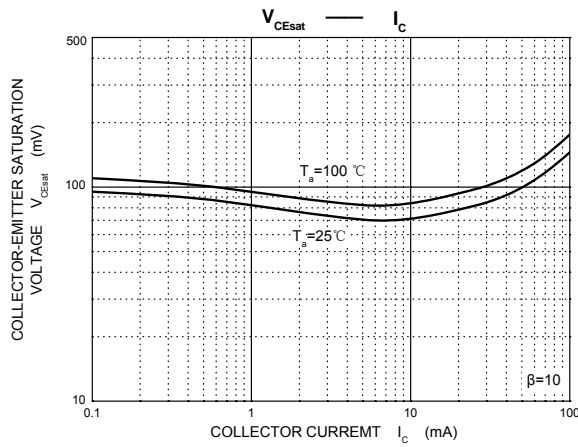
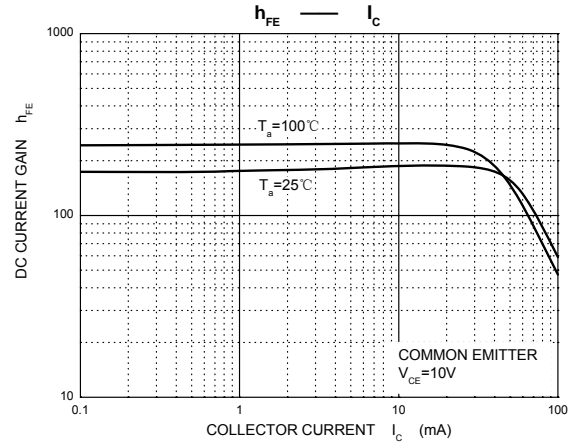
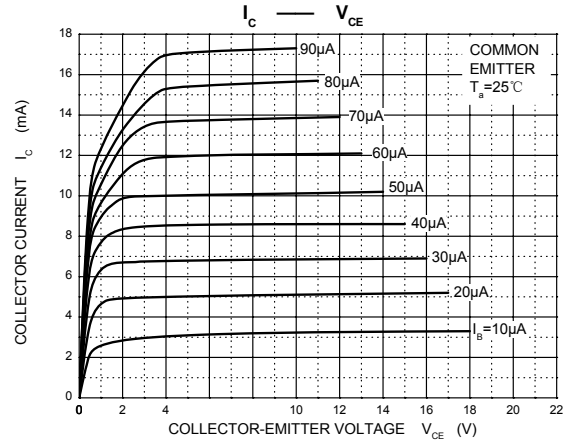
### SOT-223



1. BASE
2. COLLECTOR
3. EMITTER

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.248	.264	6.30	6.70	
B	.130	.146	3.30	3.70	
C	.264	.287	6.70	7.30	
D	.001	.004	0.02	0.10	
E	.114	.122	2.90	3.10	
F	.091		2.30		
G	---	.071	---	1.80	
H	.009	.014	0.23	0.35	
J	.030	---	0.75	---	

# PZTA42





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## Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel; 2.5Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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