



Micro Commercial Components



Micro Commercial Components  
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## PZTA44

### 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: ZTA44

## Maximum Ratings

Symbol	Rating	Value	Unit
$V_{CEO}$	Collector-Emitter Voltage	400	V
$V_{CBO}$	Collector-Base Voltage	400	V
$V_{EBO}$	Emitter-Base Voltage	6.0	V
$I_C$	Collector Current DC	0.2	A
$P_C$	Collector Power Dissipation	1.0	W
$T_J$	Junction Temperature	125	°C
$T_{STG}$	Storage Temperature	-55 to +150	°C

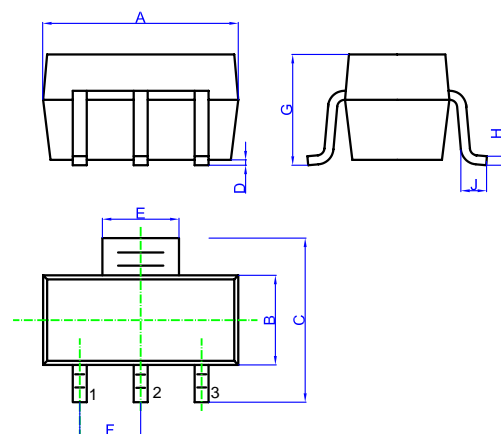
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
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### OFF CHARACTERISTICS

$V_{CBO}$	Collector-Base Voltage ( $I_C=100\mu\text{Adc}$ , $I_E=0$ )	400	---	---	Vdc
$V_{CEO}$	Collector-Emitter Voltage ( $I_C=1\text{mAdc}$ , $I_E=0$ )	400	---	---	Vdc
$V_{EBO}$	Emitter-Base Voltage ( $I_E=100\mu\text{Adc}$ , $I_C=0$ )	6.0	---	---	Vdc
$I_{CBO}$	Collector Cutoff Current ( $V_{CB}=400\text{Vdc}$ , $I_E=0$ )	---	---	100	nAdc
$I_{EBO}$	Emitter Cutoff Current ( $V_{EB}=4.0\text{Vdc}$ , $I_C=0$ )	---	---	100	nAdc
$h_{FE(1)}$	DC Current Gain ( $V_{CE}=10\text{Vdc}$ , $I_C=10\text{mAdc}$ )	50	---	200	---
$h_{FE(2)}$	DC Current Gain ( $V_{CE}=10\text{Vdc}$ , $I_C=1.0\text{mAdc}$ )	40	---	---	---
$h_{FE(3)}$	DC Current Gain ( $V_{CE}=10\text{Vdc}$ , $I_C=50\text{mAdc}$ )	45	---	---	---
$h_{FE(4)}$	DC Current Gain ( $V_{CE}=10\text{Vdc}$ , $I_C=100\text{mAdc}$ )	40	---	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ( $I_C=10\text{mAdc}$ , $I_B=1\text{mAdc}$ )	---	---	0.5	Vdc
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ( $I_C=50\text{mAdc}$ , $I_B=5\text{mAdc}$ )	---	---	0.75	Vdc
$V_{BE(sat)}$	Base-Emitter Voltage ( $I_C=10\text{mAdc}$ , $I_B=1\text{mAdc}$ )	---	---	0.75	Vdc
$f_T$	Transition Frequency ( $V_{CE}=10\text{Vdc}$ , $I_C=10\text{mAdc}$ , $f=100\text{MHz}$ )	20	---	---	MHz
$C_c$	Collector Capacitance ( $V_{CB}=20\text{Vdc}$ , $I_E=0$ , $f=1\text{MHz}$ )	---	---	7	pF
$C_e$	Emitter Capacitance ( $V_{EB}=0.5\text{Vdc}$ , $I_C=0$ , $f=1\text{MHz}$ )	---	---	130	pF

## SOT-223

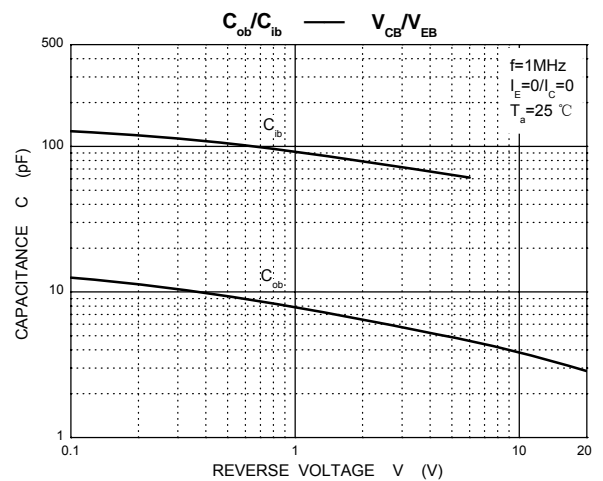
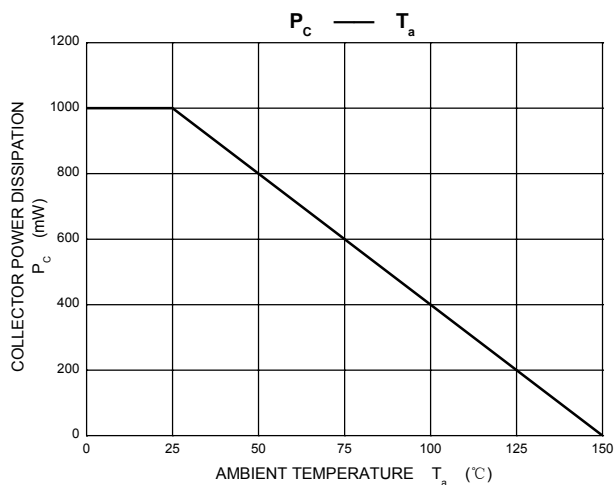
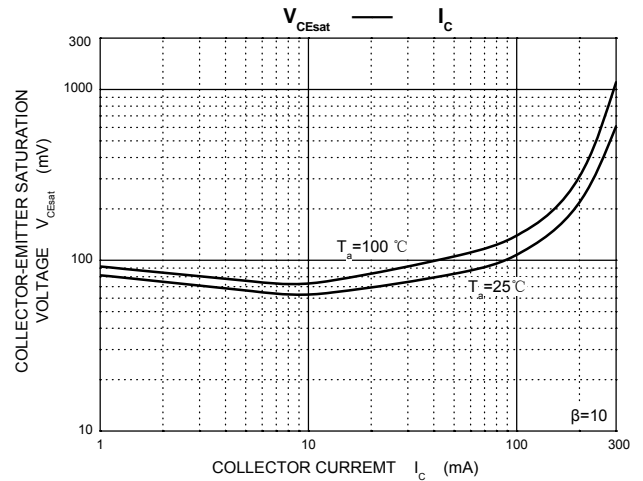
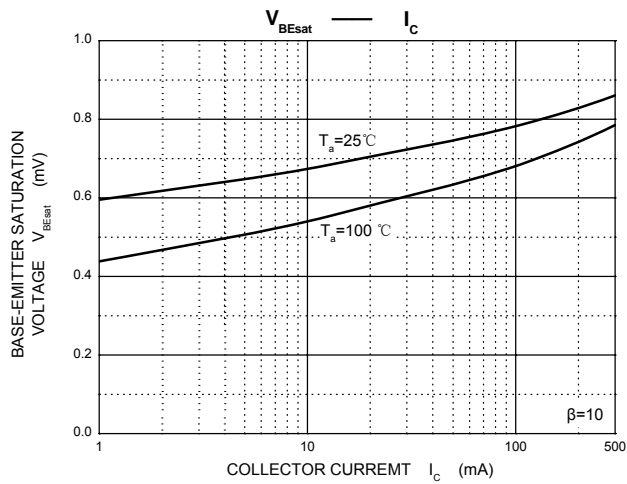
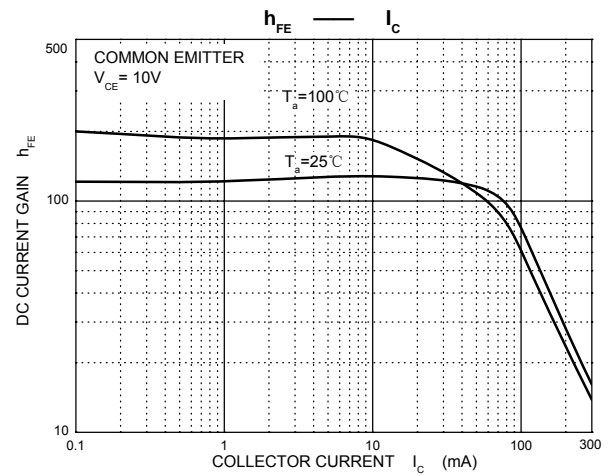
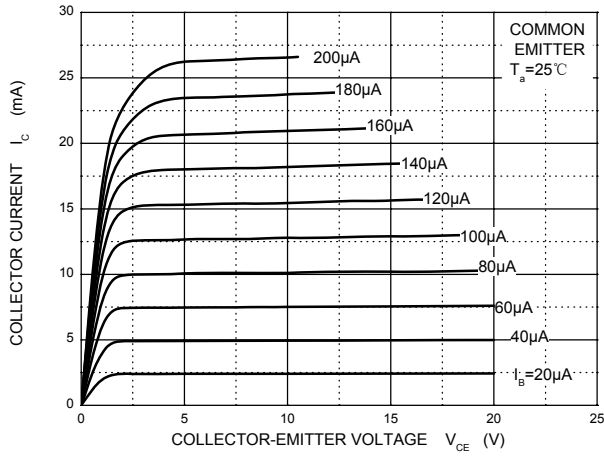


1. BASE
2. COLLECTOR
3. EMITTER

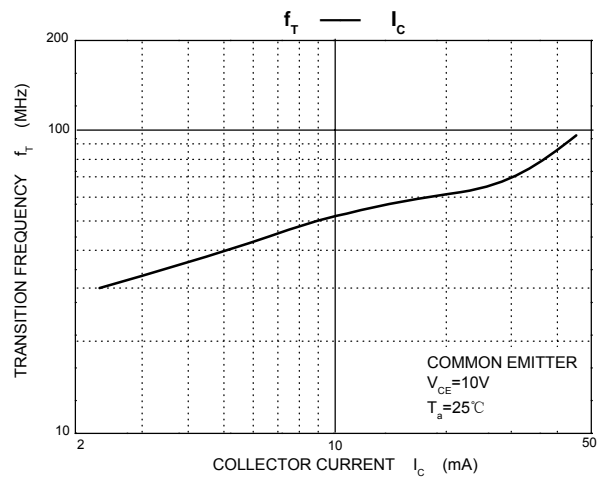
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.248	.264	6.30	6.70	
B	.130	.146	3.30	3.70	
C	.264	.287	6.70	7.30	
D	.001	.004	0.02	0.10	
E	.114	.122	2.90	3.10	
F	.091		2.30		
G	---	.071	---	1.80	
H	.009	.014	0.23	0.35	
J	.030	---	0.75	---	

# PZTA44

Static Characteristic



## PZTA44





## 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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