



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

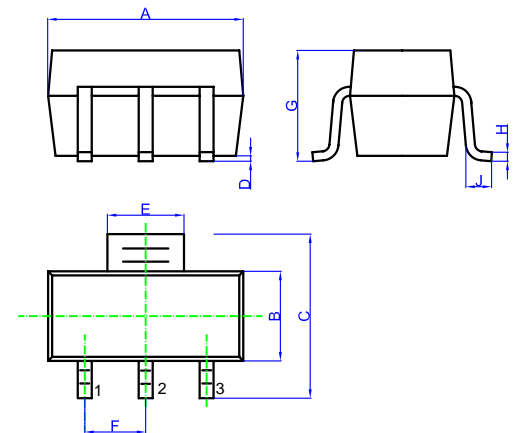
Maximum Ratings

Symbol	Rating	Value	Unit
V _{CEO}	Collector-Emitter Voltage	300	V
V _{CBO}	Collector-Base Voltage	300	V
V _{EBO}	Emitter-Base Voltage	6.0	V
I _C	Collector Current DC	0.2	A
I _{CM}	Collector Current -Pulsed	0.5	A
P _C	Collector Power Dissipation	1.0	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
OFF CHARACTERISTICS					
V _{CBO}	Collector-Base Voltage (I _C =100µAdc, I _E =0)	300	---	---	Vdc
V _{CEO}	Collector-Emitter Voltage (I _C =1mAdc, I _B =0)	300	---	---	Vdc
V _{EBO}	Emitter-Base Voltage (I _E =100µAdc, I _C =0)	6.0	---	---	Vdc
I _{CBO}	Collector Cutoff Current (V _{CB} =400Vdc, I _E =0)	---	---	100	nAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =4.0Vdc, I _C =0)	---	---	100	nAdc
h _{FE(1)}	DC Current Gain (V _{CE} =10Vdc, I _C =1mAdc)	25	---	---	---
h _{FE(2)}	DC Current Gain (V _{CE} =10Vdc, I _C =10mAdc)	40	---	---	---
h _{FE(3)}	DC Current Gain (V _{CE} =10Vdc, I _C =30mAdc)	40	---	---	---
V _{CE(sat)}	Collector-Emitter (I _C =20mA, I _B =2mA)	---	---	0.5	Vdc
V _{BE(sat)}	Base-Emitter Voltage (I _C =20mA, I _B =2mA)	---	---	0.9	Vdc
f _T	Transition Frequency (V _{CE} =20Vdc, I _C =10mAdc, ff=100MHz)	50	---	---	MHz
C _{ob} C _e	Collector output capacitance (V _{CB} =20Vdc, I _E =0, f=1MHz)	---	---	3	pF

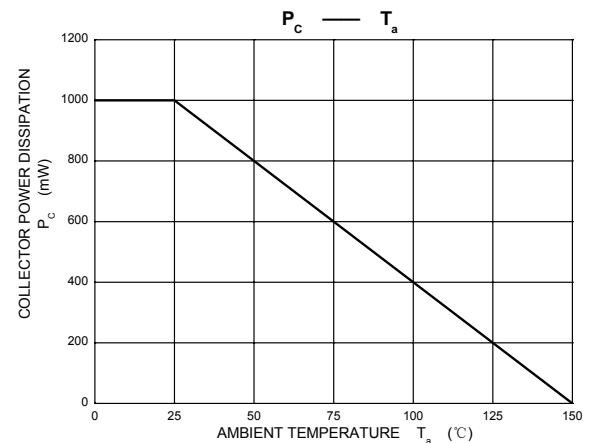
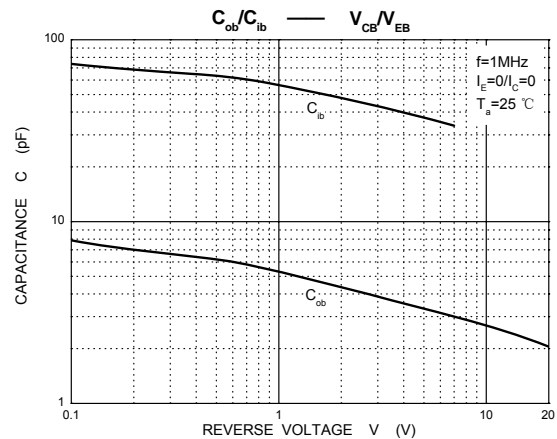
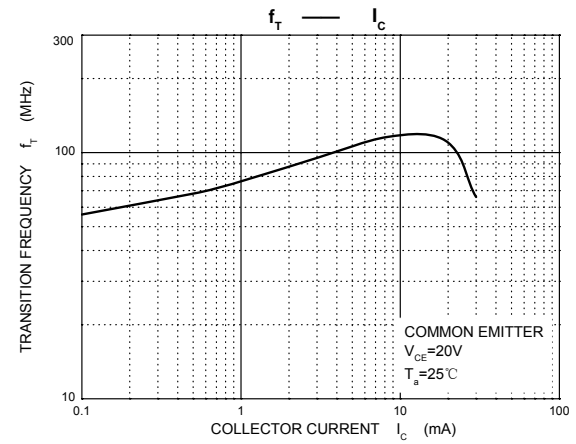
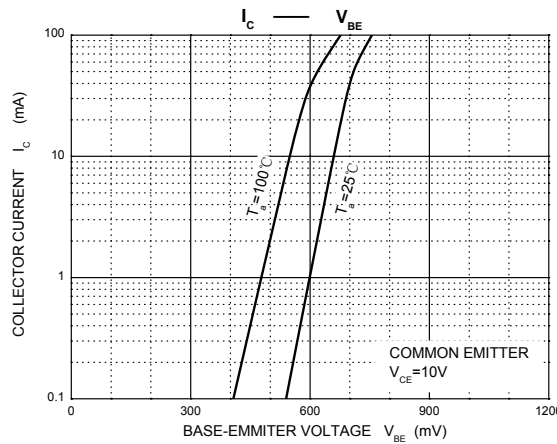
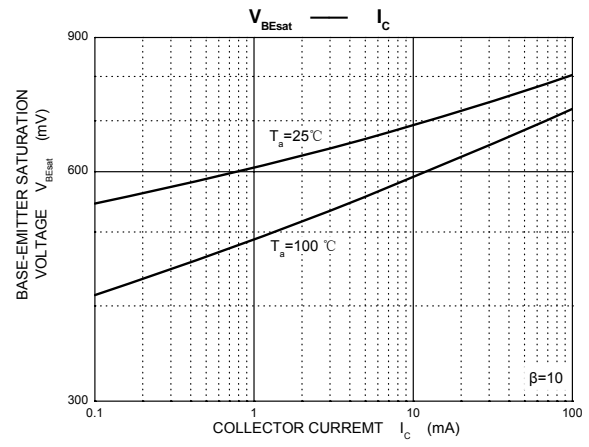
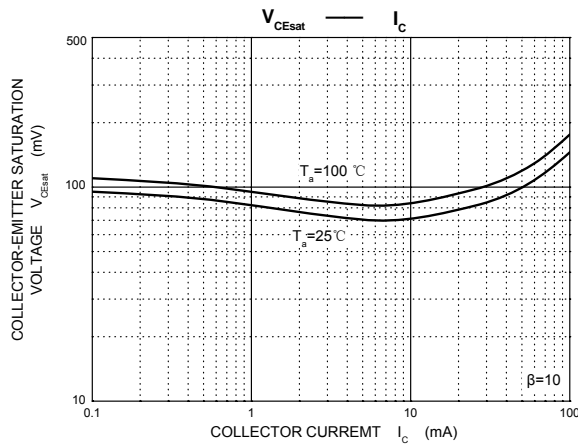
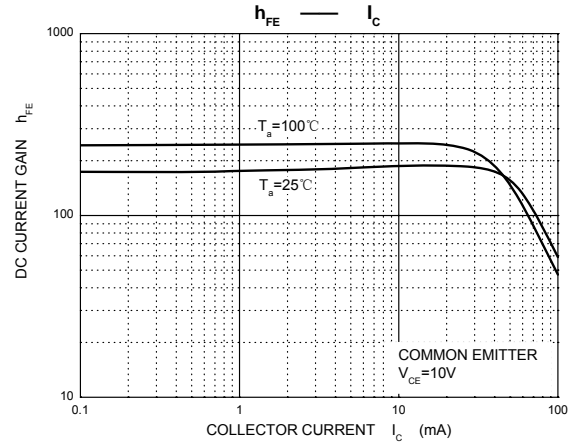
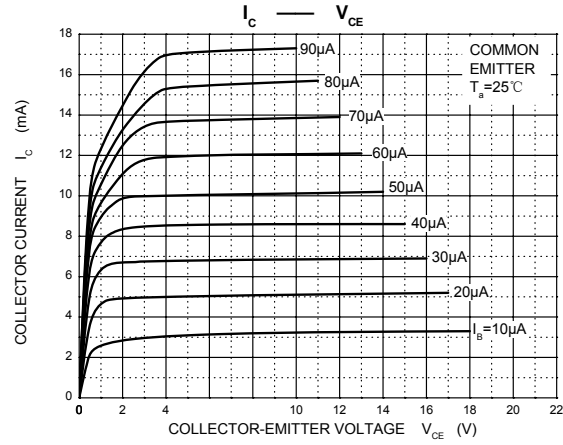
SOT-223



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	---	

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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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