



Micro Commercial Components

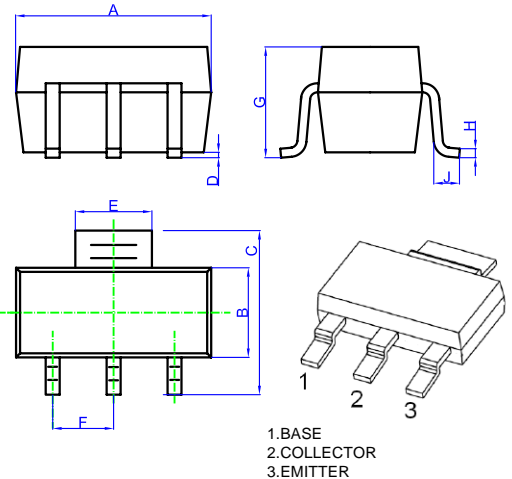


Micro Commercial Components
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PZT2222A

NPN Plastic-Encapsulate Transistors

SOT-223



DIM	MM		INCHES		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	---	

Features

- Surface Mount SOT-223 Package
- Capable of 1Watts of Power Dissipation
- Ic:0.6A
- Marking:ZT2222A
- Operating and Storage Junction Temperatures:-55°C to 150°C
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* ($I_C=10mA$, $I_B=0$)	40		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=10\mu A$, $I_E=0$)	75		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=10\mu A$, $I_C=0$)	6.0		Vdc
I_{EBO}	Emitter Cutoff Current ($V_{EB}=3Vdc$, $I_C=0Vdc$)		10	nAdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=60Vdc$, $I_E=0$)		10	nAdc

ON CHARACTERISTICS

h_{FE}	DC Current Gain* ($I_C=0.1mA$, $V_{CE}=10Vdc$) ($I_C=1.0mA$, $V_{CE}=10Vdc$) ($I_C=10mA$, $V_{CE}=-10Vdc$) ($I_C=150mA$, $V_{CE}=10Vdc$) ($I_C=150mA$, $V_{CE}=10Vdc$) ($I_C=500mA$, $V_{CE}=10Vdc$)	35	300		
		50			
		75			
		100			
		50			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=150mA$, $I_B=15mA$) ($I_C=500mA$, $I_B=50mA$)	0.3	0.3	1.0	Vdc
		1.0			
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=150mA$, $I_B=15mA$) ($I_C=500mA$, $I_B=50mA$)	1.2	1.2	2.0	Vdc
		2.0			

SMALL-SIGNAL CHARACTERISTICS

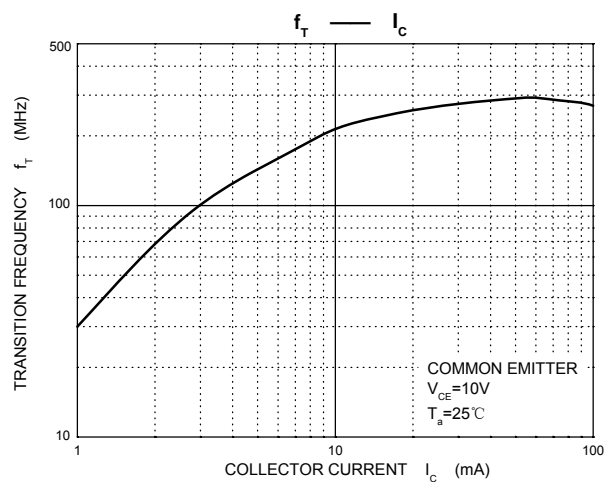
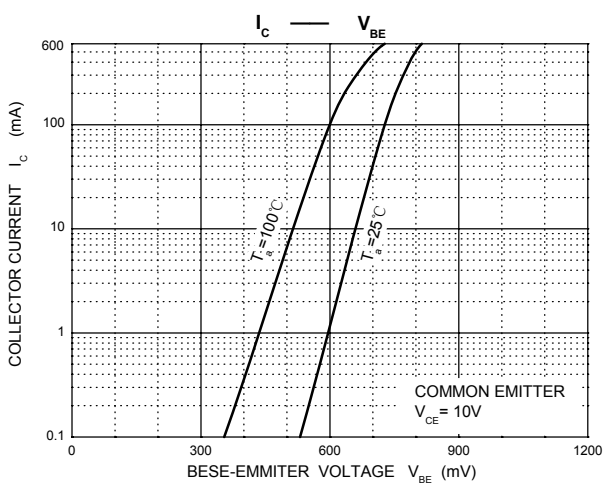
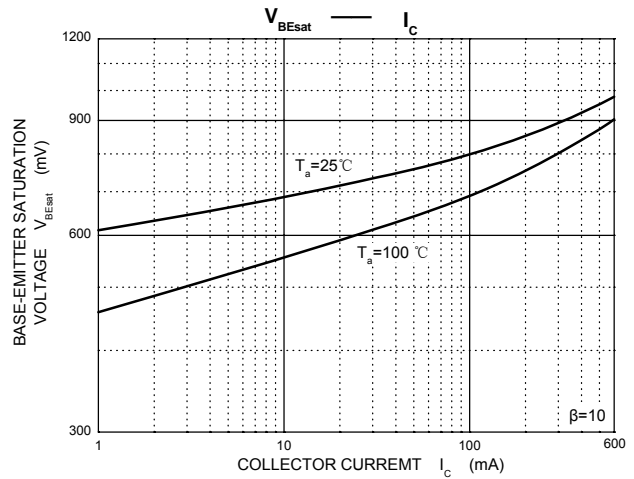
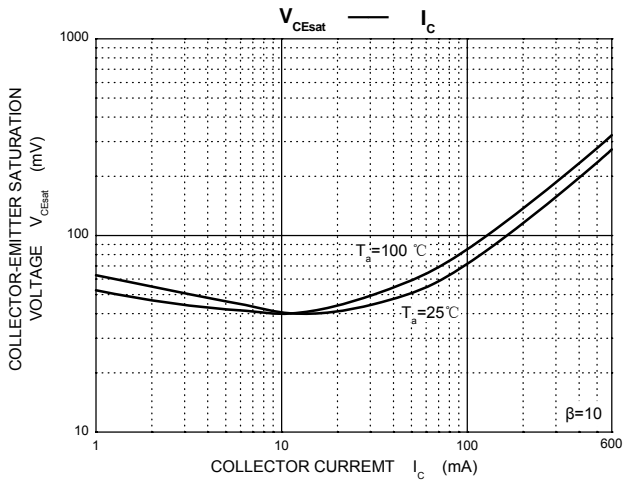
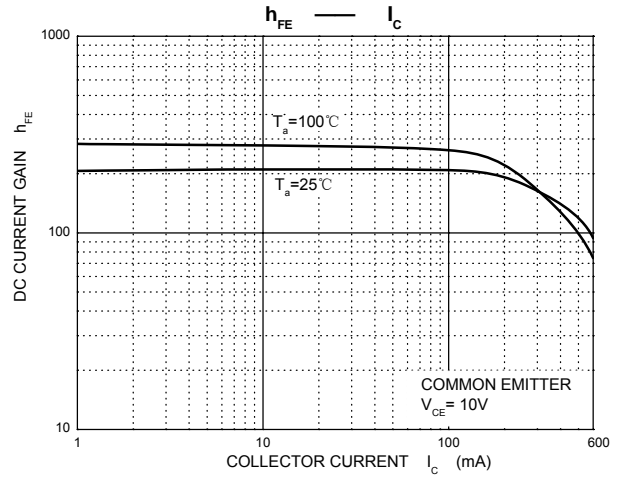
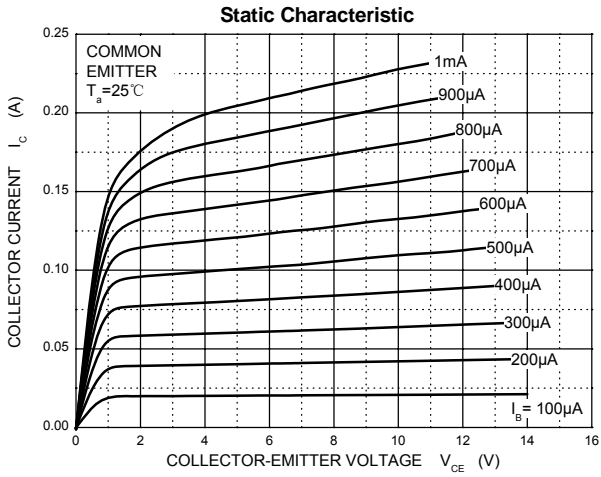
f_T	Current Gain-Bandwidth Product ($I_C=20mA$, $V_{CE}=20Vdc$, $f=100MHz$)	300			MHz
C_{bo}	Output Capacitance ($V_{CB}=10Vdc$, $I_E=0$, $f=1MHz$)		8.0		pF

SWITCHING CHARACTERISTICS

t_d	Delay Time	$V_{CC}=30V$, $I_C=150mA$,	10	ns
t_r	Rise Time	$V_{BE(OFF)}=0.5V$, $I_{B1}=15mA$	25	ns
t_s	Storage Time	$V_{CC}=30V$, $I_C=150mA$,	225	ns
t_f	Fall Time	$I_{B1}=-I_{B2}=15mA$	60	ns

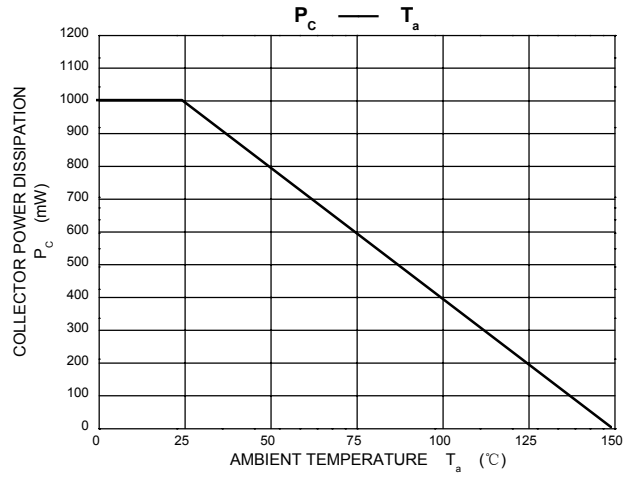
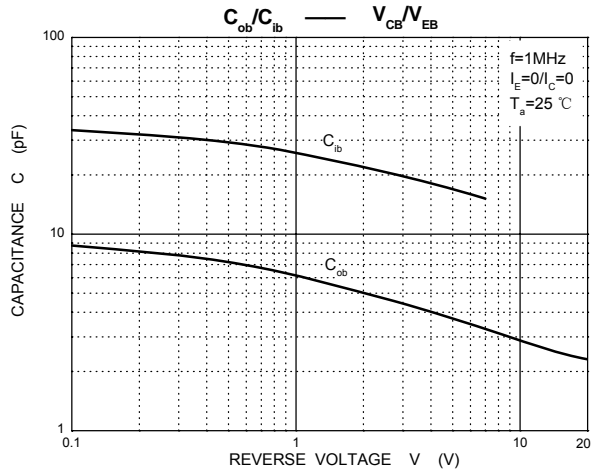
PZT222A

Typical Characteristics



PZT2222A

Typical Characteristics





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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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