



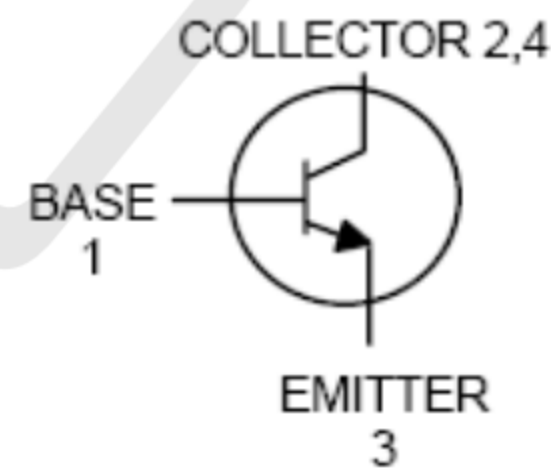
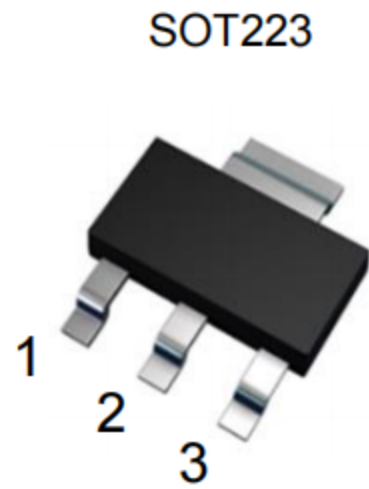
Features

- High Collector Current
- Low Collector-emitter Saturation Voltage

Mechanical Data

- Case: SOT-223
- Molding compound, UL flammability classification rating 94V-0
- Terminals: Matte tin plated leads, solderable per MIL-STD-202, Method 208

Circuit Diagram



Marking:BCP56-16

Absolute Maximum Ratings (Tamb=25°C unless otherwise specified)

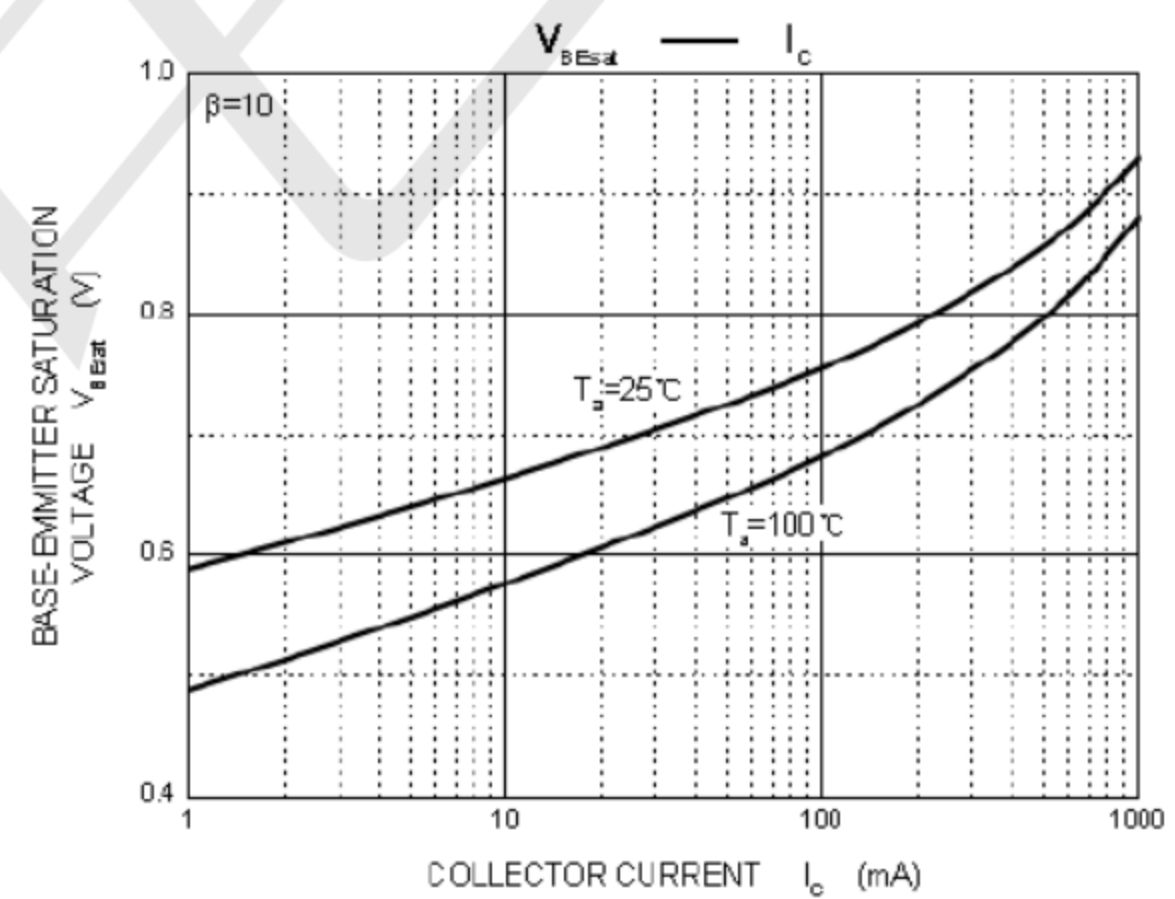
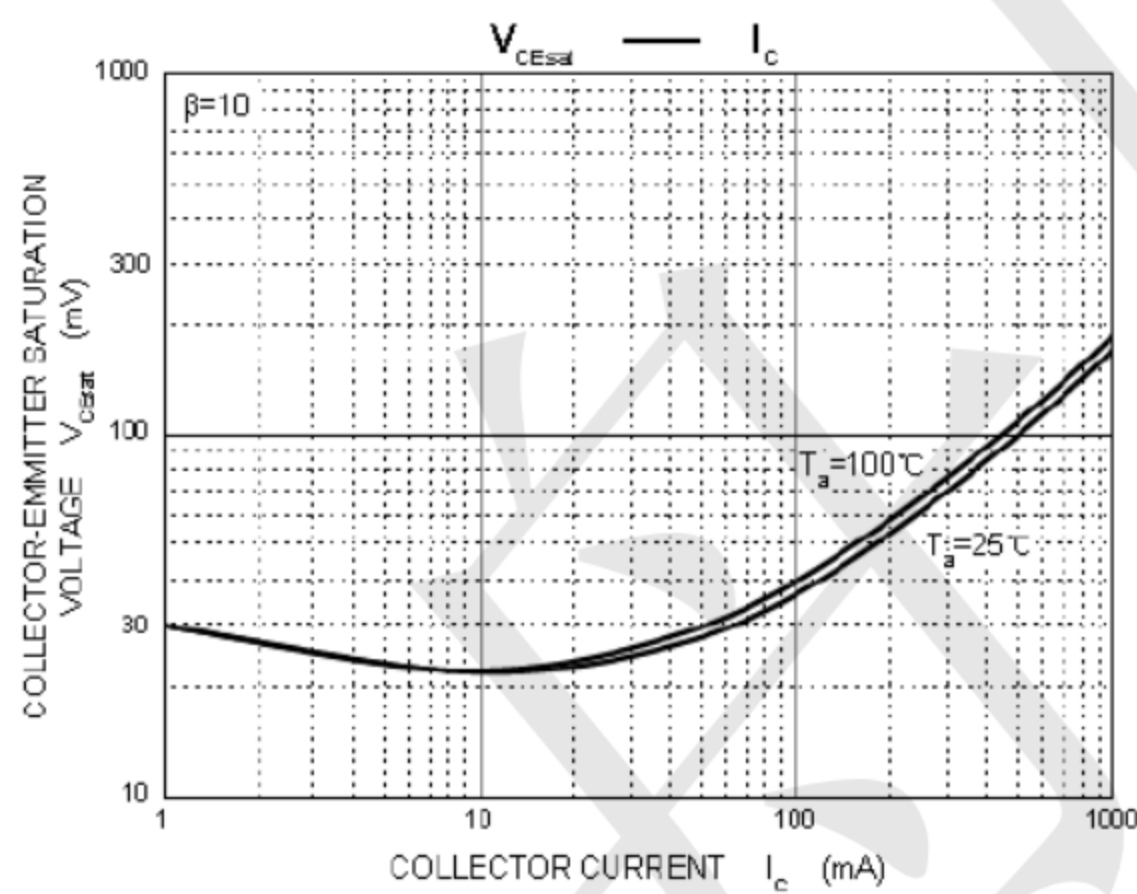
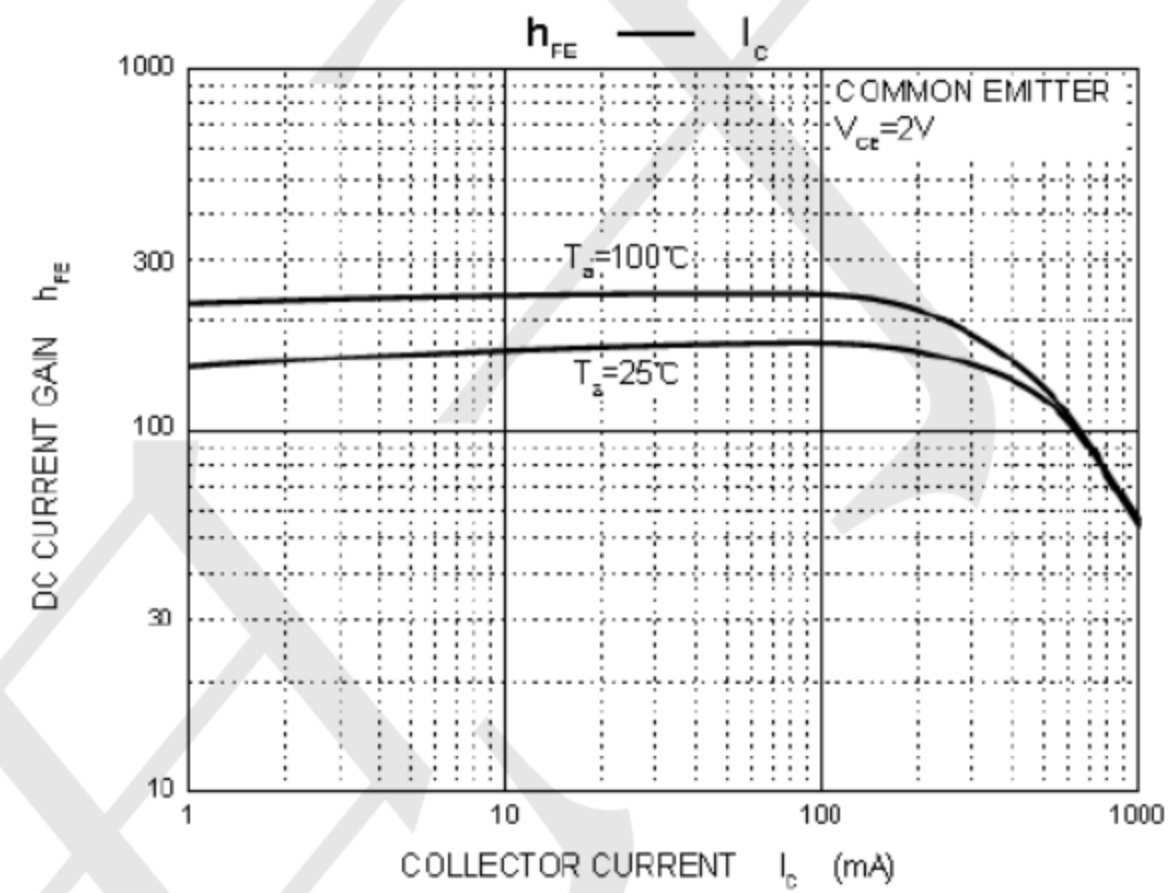
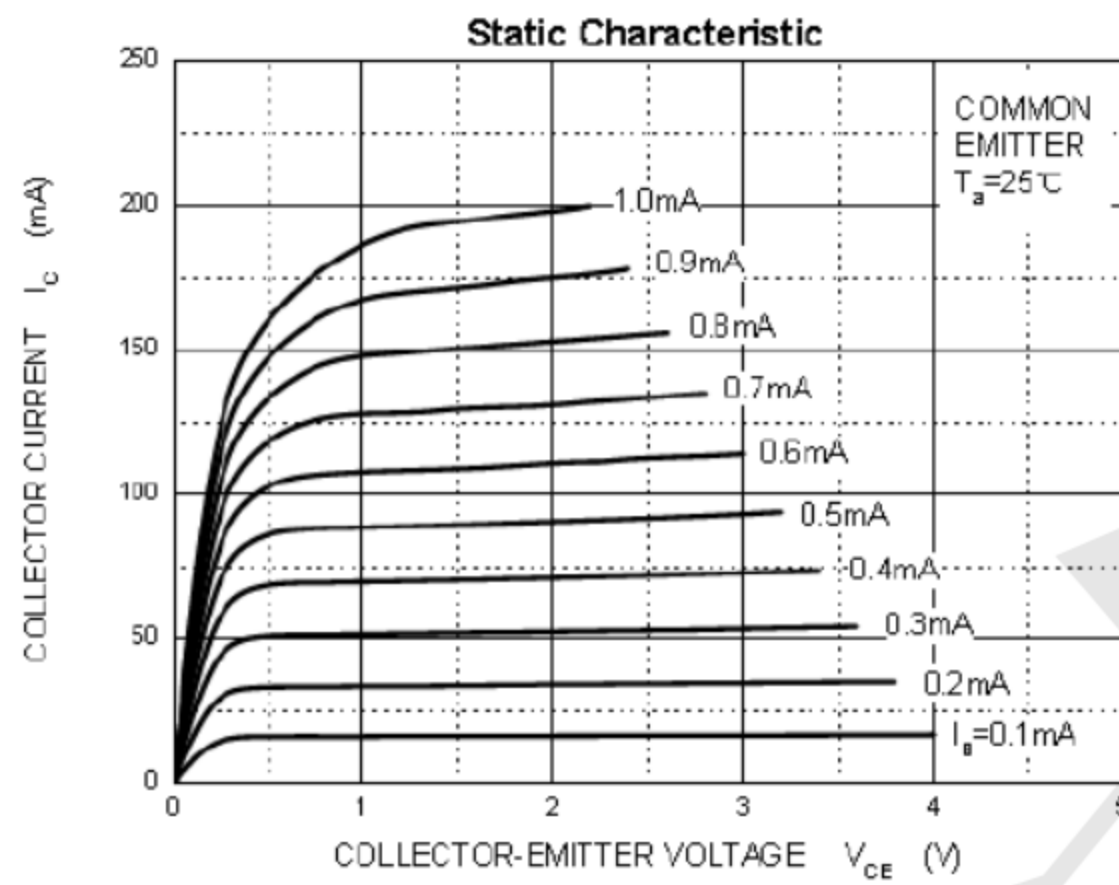
Symbol	TECHPUBLIC Parameter	Value	Units
V _{CB0}	Collector-Base Voltage	100	V
V _{CEO}	Collector-Emitter Voltage	80	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current - Continuous	1	A
I _{CM}	Peak Collector Current	1.5	A
I _B	Base Current	0.1	A
I _{BM}	Peak Base Current	0.2	A

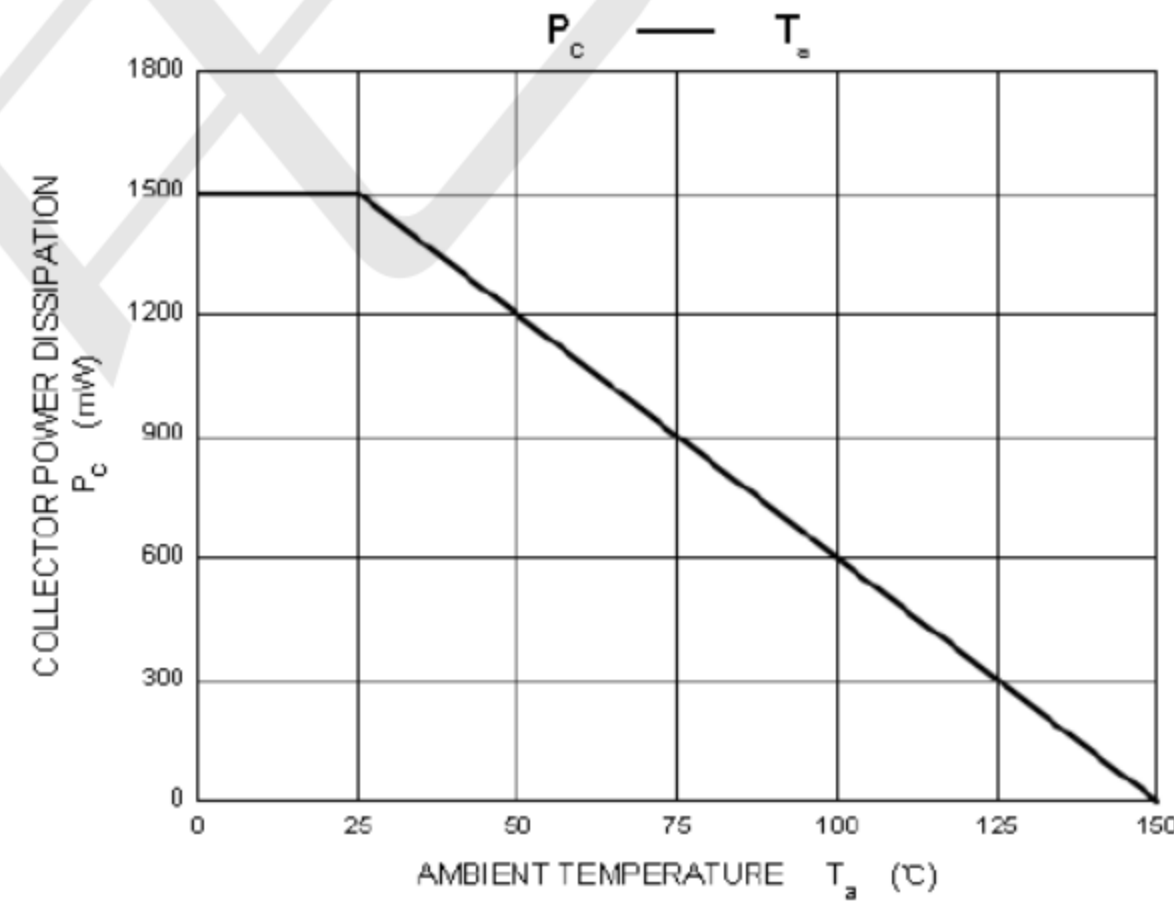
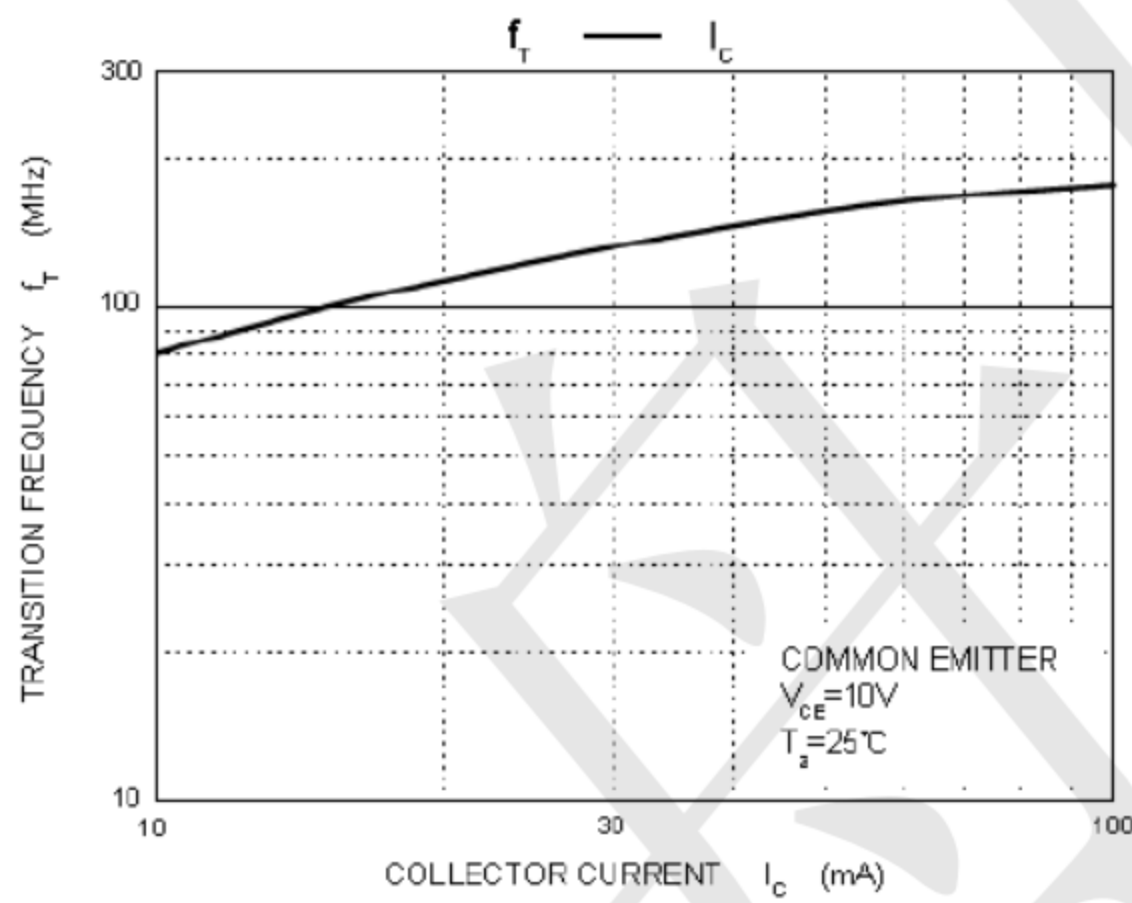
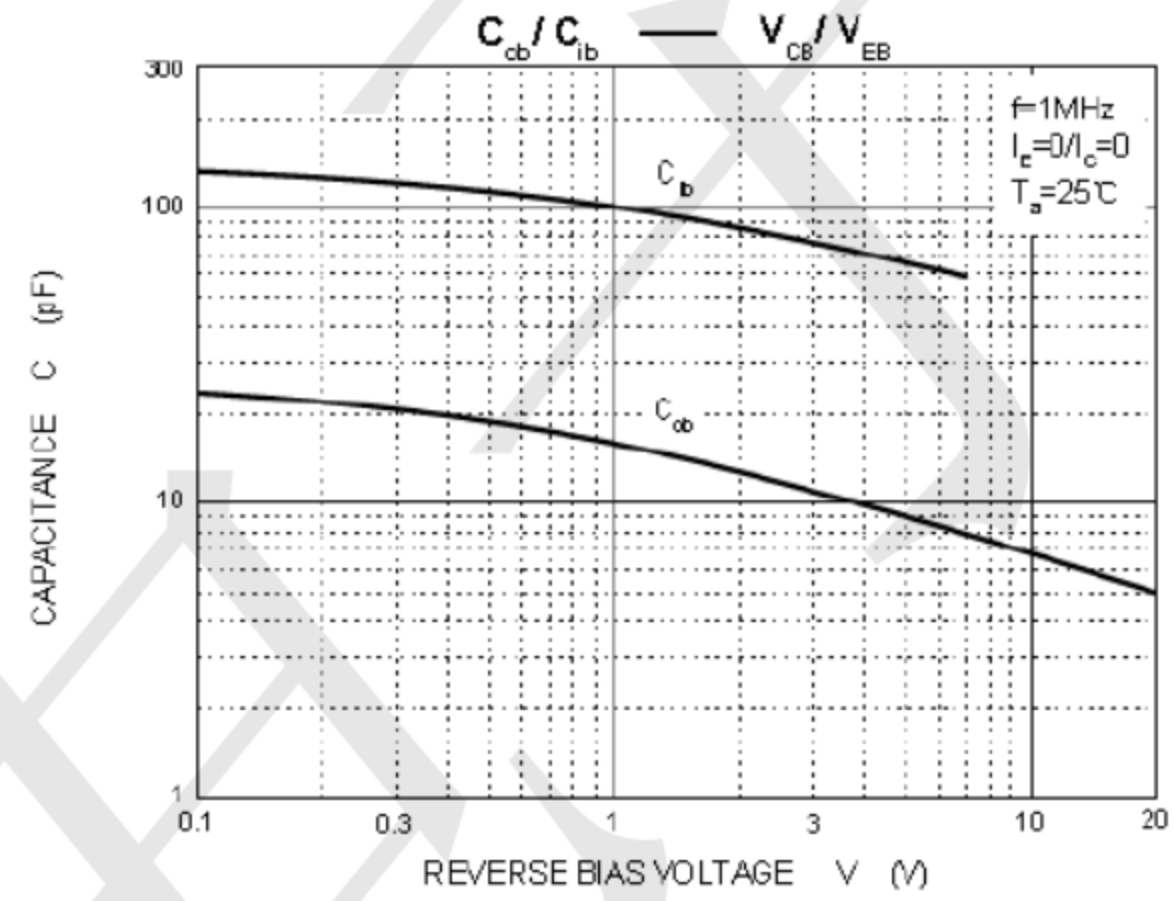
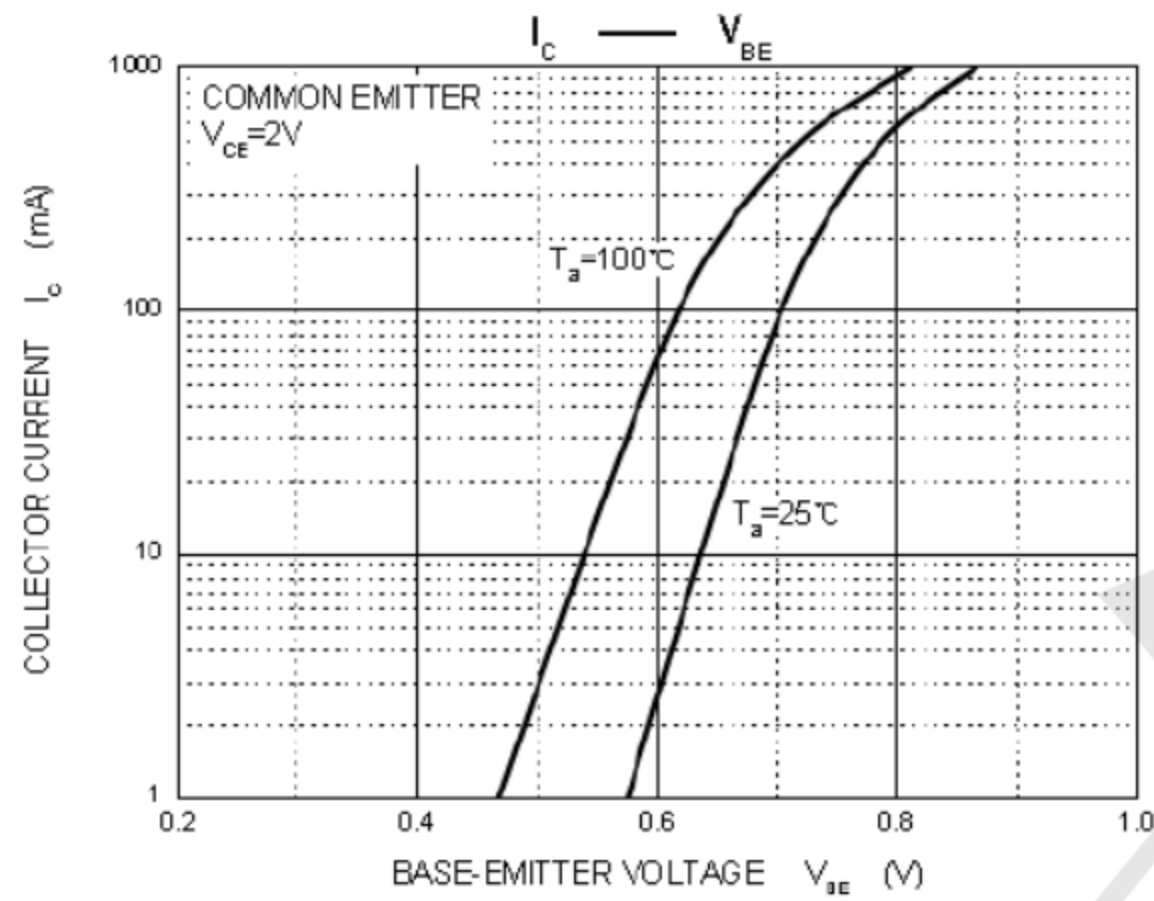
**Thermal Characteristic**

Symbol	TECH PUBLIC Parameter	Value	Units
P_D	Power Dissipation *1	1.5	W
$R_{\theta JA}$	Thermal Resistance Junction-to-Air *2	104	$^{\circ}CW$
$R_{\theta JC}$	Thermal Resistance Junction-to-Case *2	32	$^{\circ}CW$
$R_{\theta JL}$	Thermal Resistance Junction-to-Lead *2	14	$^{\circ}CW$
T_J	Junction Temperature	150	$^{\circ}C$
T_{STG}	Junction and Storage Temperature	-55 to +150	$^{\circ}C$

Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise specified)

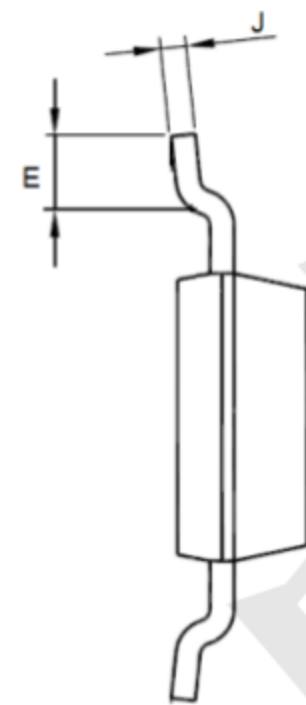
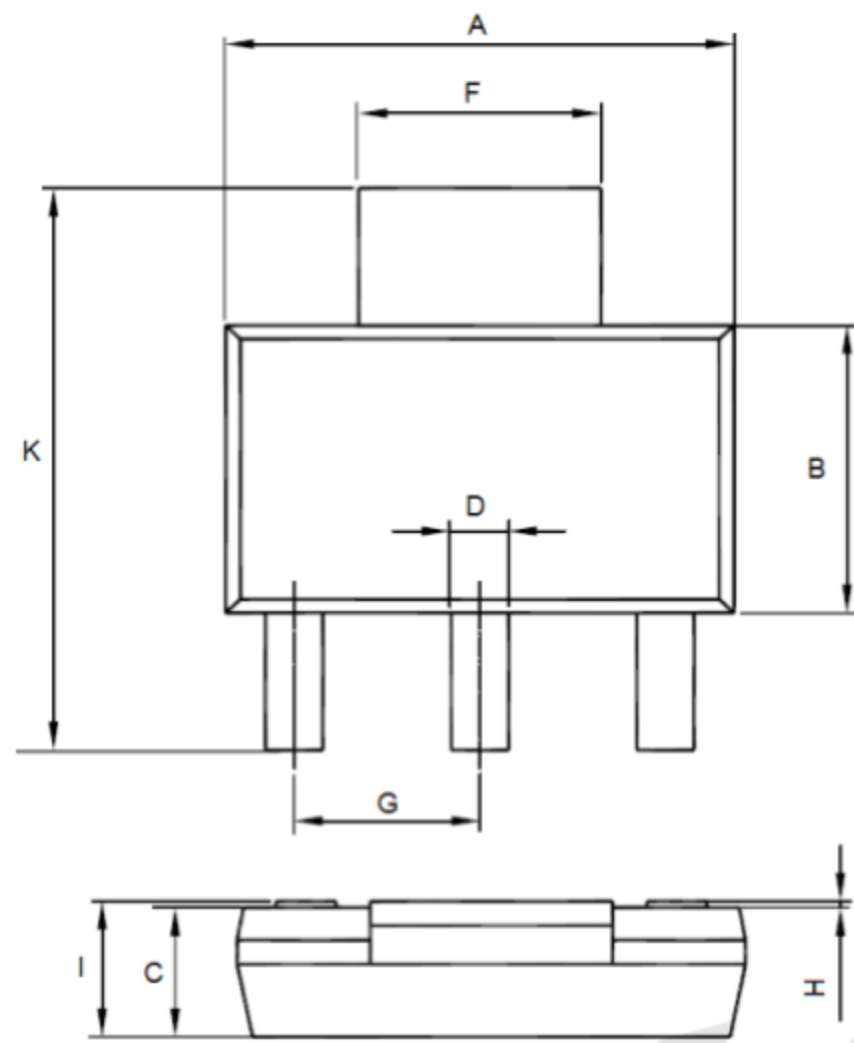
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector cut-off current	I_{CBO}	$V_{CB}=30V, I_E=0$	-	-	100	nA
Emitter cut-off current	I_{EBO}	$I_C=0, V_{EB}=5V$	-	-	100	nA
DC Current Gain	h_{FE}	$V_{CE}=2V, I_C=150\text{ mA}$	100		250	
Collector-Emitter Saturation Voltage (Note 2)	$V_{CE(sat)}$	$I_C=0.5A, I_B=50\text{mA}$	-	-	0.5	V
Base-emitter Voltage	V_{BE}	$I_C=0.5A, V_{CE}=2V$	-	-	1	V
Transition frequency	f_T	$V_{CE}=10V, I_C=50\text{mA}$ $f=100\text{MHz}$	100	-	-	MHz



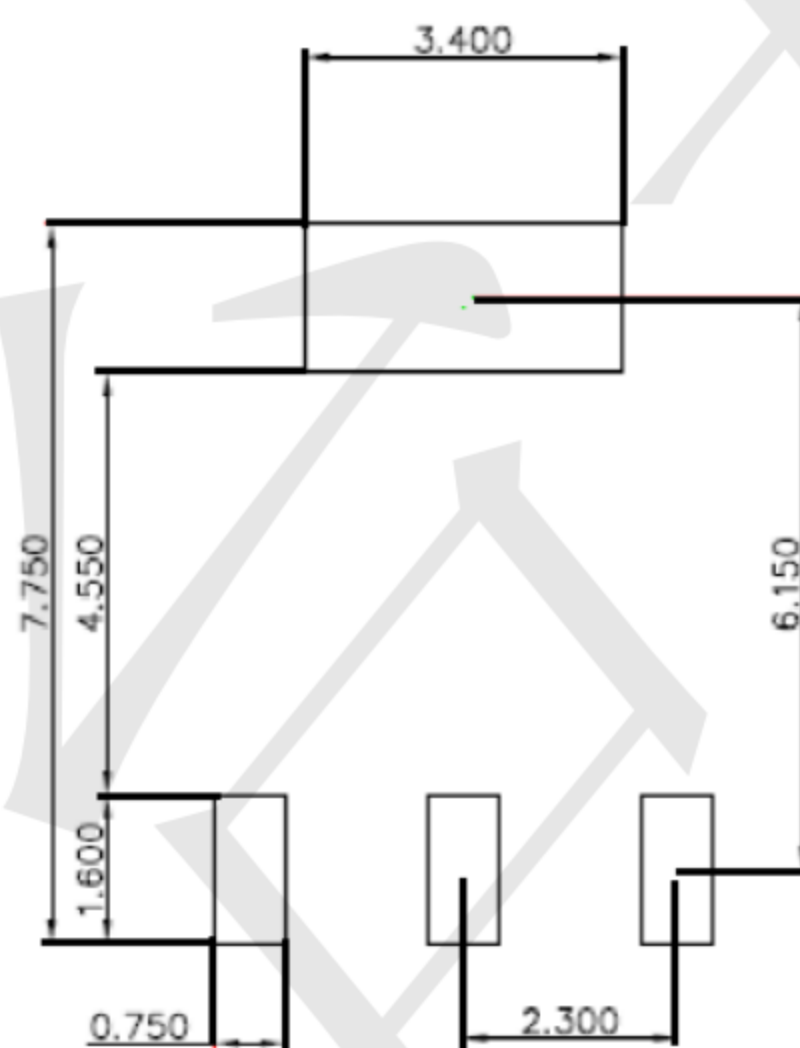




Outline Drawing - SOT223



SOT-223		
Dim	Min	Max
A	6.10	6.50
B	3.30	3.70
C	1.50	1.70
D	0.66	0.82
E	0.90	1.15
F	2.90	3.10
G	2.20	2.40
H	0.02	0.10
I	1.52	1.80
J	0.20	0.40
K	6.70	7.30



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