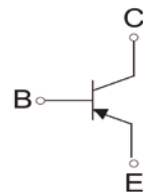


Features

- Ideally suited for automatic insertion
- For Switching and AF Amplifier Applications



SOT23



Equivalent Circuit

Absolute Maximum Ratings($T_A=25^{\circ}\text{C}$)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-80	V
V_{CEO}	Collector-Emitter Voltage	-65	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current	-0.1	A
P_C	Collector Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	625	$^{\circ}\text{C/W}$
T_J, T_{stg}	Operation Junction And Storage Temperature Range	-55 ~ +150	$^{\circ}\text{C}$

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

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
V_{CBO}	Collector-base breakdown voltage	$I_C=-10\mu\text{A}, I_E=0$	-80			V
V_{CEO}	Collector-emitter breakdown voltage	$I_C=-10\text{mA}, I_B=0$	-65			V
V_{EBO}	Emitter-base breakdown voltage	$I_E=-1\mu\text{A}, I_C=0$	-5			V
I_{CBO}	Collector cut-off current	$V_{CB}=-70\text{V}, I_E=0$			-0.1	μA
I_{EBO}	Emitter cut-off current	$V_{EB}=-5\text{V}, I_C=0$			-0.1	μA
h_{FE}	DC current gain	$V_{CE}=-5\text{V}, I_C=-2\text{mA}$	220		475	
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=-100\text{mA}, I_B=-5\text{mA}$			-0.5	V
$V_{BE(sat)}$	Base-emitter saturation voltage	$I_C=-100\text{mA}, I_B=-5\text{mA}$			-1.1	V
f_T	Transition frequency	$V_{CE}=-5\text{V}, I_C=-10\text{mA}, f=100\text{MHz}$	100			MHz
C_{ob}	Collector capacitance	$V_{CB}=-10\text{V}, f=1\text{MHz}$			4.5	pF

Ordering information

Product ID	Pack	Naming rule	Marking	$h_{FE}(1)$	Qty(PCS)
BC856B	SOT-23	BC856B 产品名称 product name	3B	220~475	3000



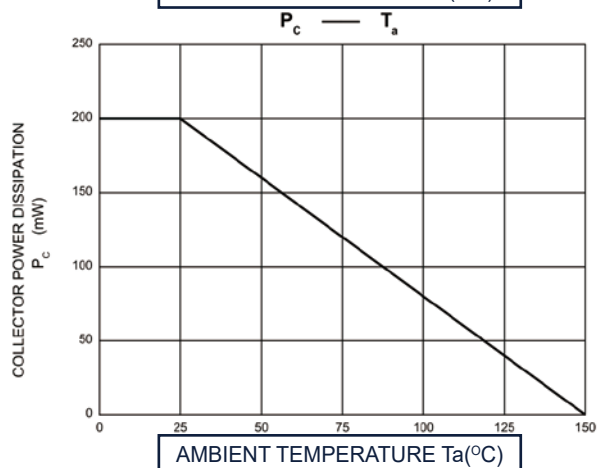
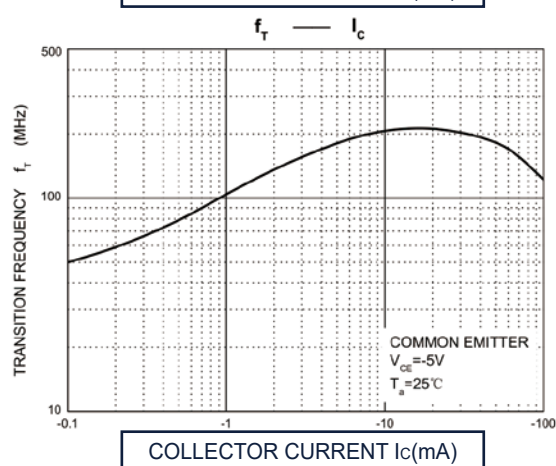
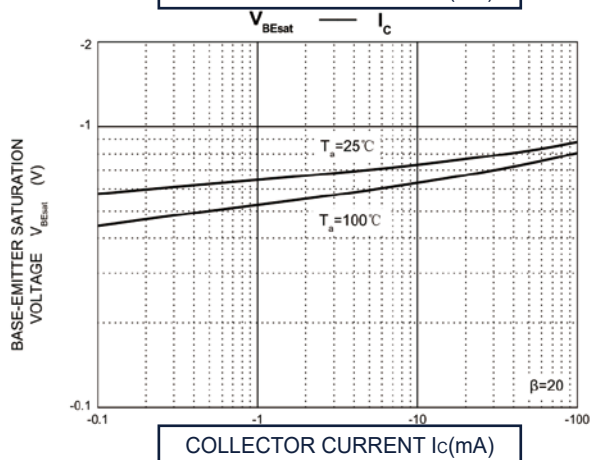
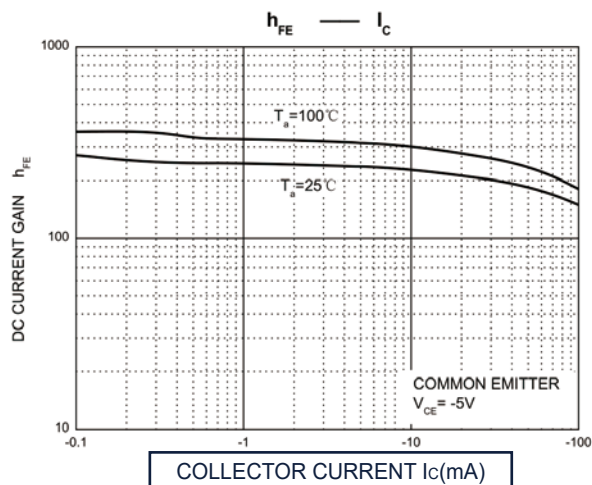
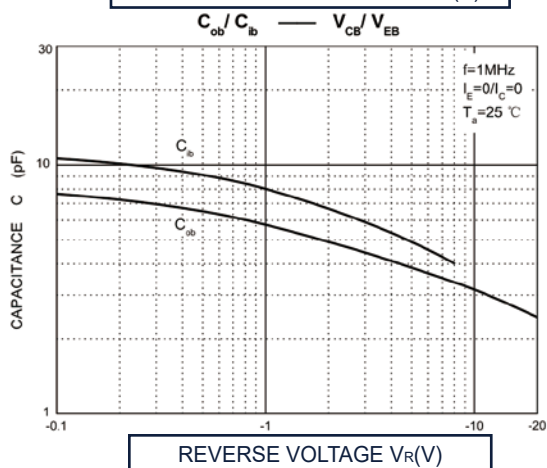
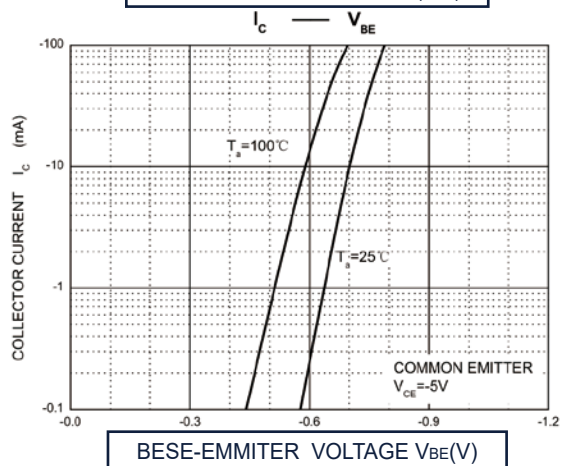
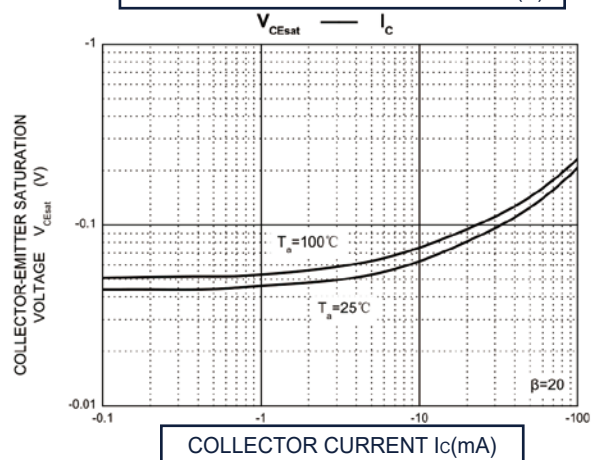
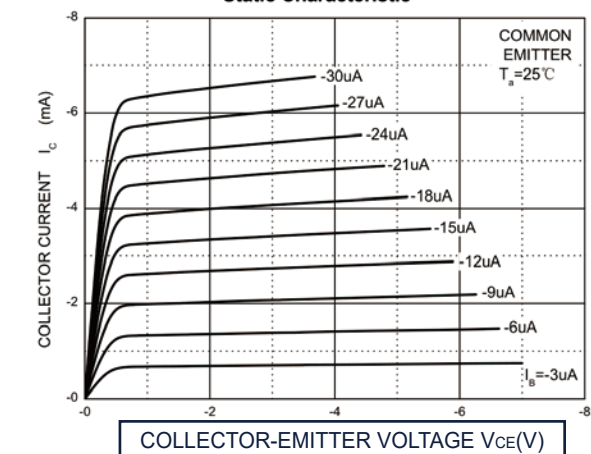
TWTLSEMI

TL-BC856B

SOT-23 Plastic-Encapsulate Transistors (PNP)

Typical Characteristics

Static Characteristic





SOT23 Package Outline Dimensions



Symbol	Dimensions in Millimeters	
	mm	
	Min	Max
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950TYP	
e1	1.800	2.000
L	0.550REF	
L1	0.300	0.500
θ	0°	8°