

Features

- Low Cob
- Complements the 2SA2029



SOT-723

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

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	60	V
V_{CEO}	Collector-Emitter Voltage	50	V
V_{EBO}	Emitter-Base Voltage	7	V
I_C	Collector Current	0.15	A
P_C	Collector Power Dissipation	100	mW
T_J, T_{stg}	Operation Junction And Storage Temperature Range	$-55 \sim +150$	$^{\circ}\text{C}$

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

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=50\mu\text{A}, I_E=0$	60			V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=1\text{mA}, I_B=0$	50			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=50\mu\text{A}, I_C=0$	7			V
I_{CBO}	Collector cut-off current	$V_{CB}=60\text{V}, I_E=0$			0.1	μA
I_{EBO}	Emitter cut-off current	$V_{EB}=7\text{V}, I_C=0$			0.1	μA
h_{FE}	DC current gain	$V_{CE}=6\text{V}, I_C=1\text{mA}$	120		560	
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=50\text{mA}, I_B=5\text{mA}$			0.4	V
f_T	Transition frequency	$V_{CE}=12\text{V}, I_C=2\text{mA}, f=30\text{MHz}$		180		MHz
C_{ob}	Collector output capacitance	$V_{CB}=12\text{V}, I_E=0, f=1\text{MHz}$			3.5	pF

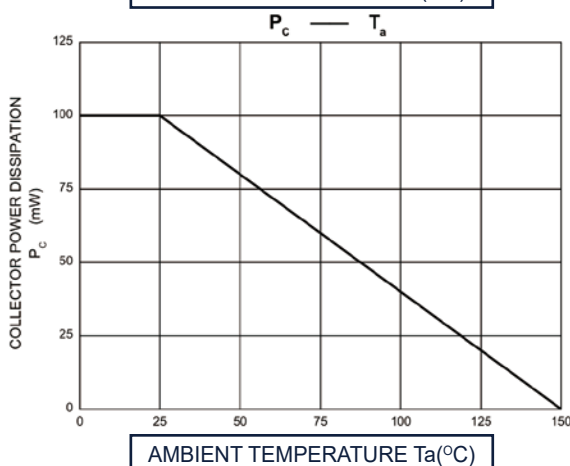
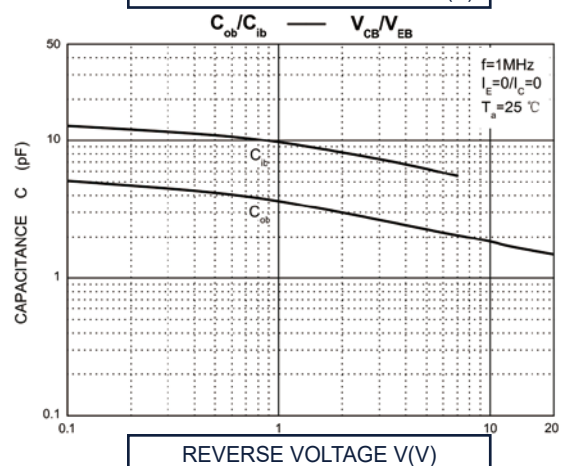
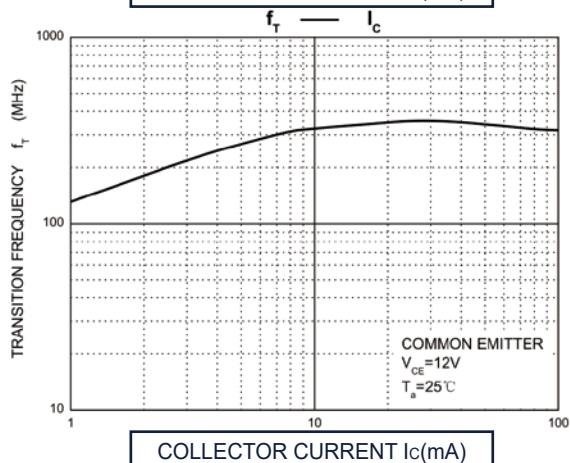
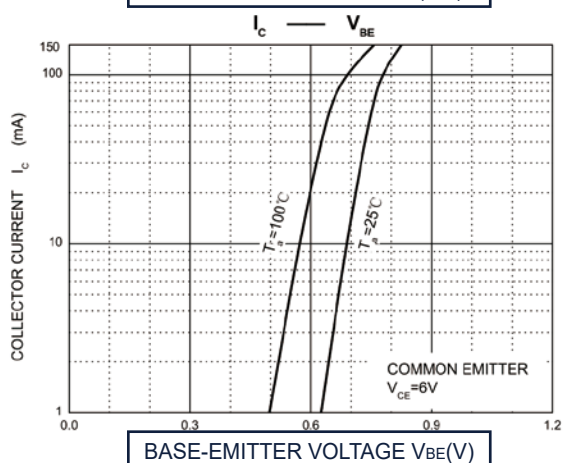
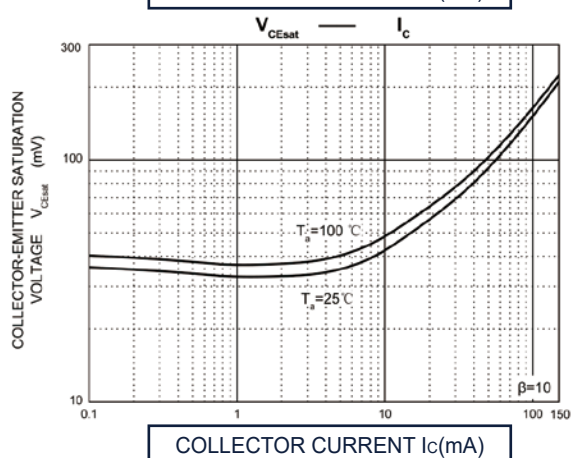
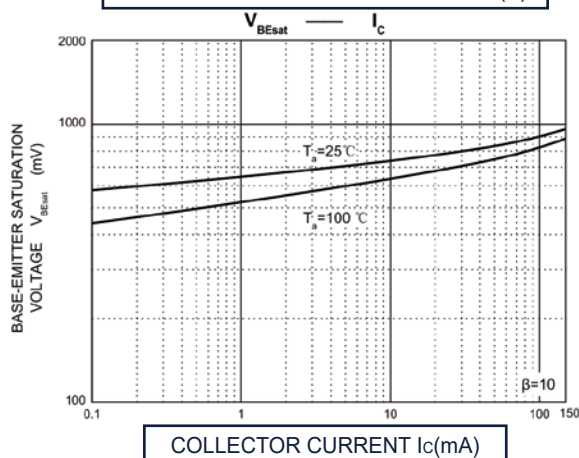
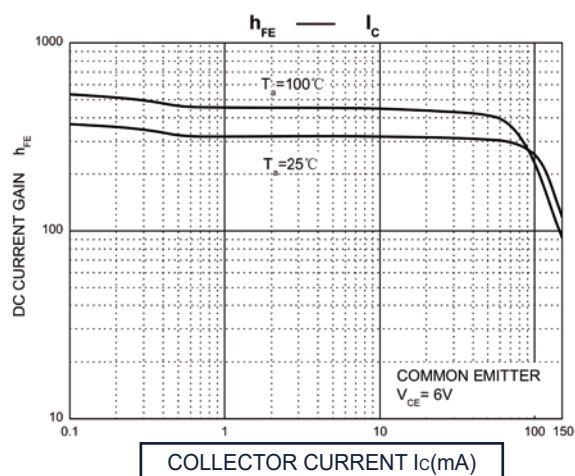
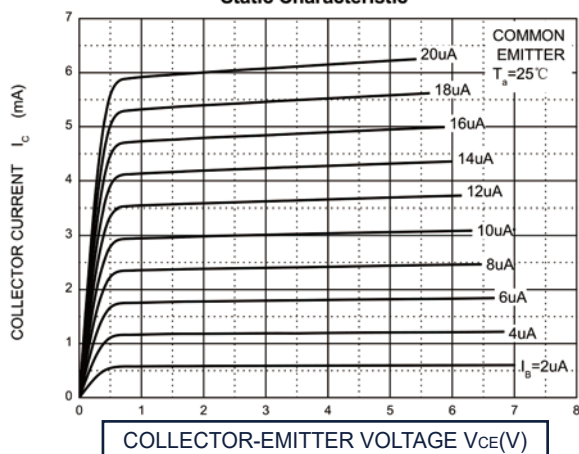
Ordering information

Product ID	Pack	Naming rule	Marking	$h_{FE}(1)$	Qty(PCS)
2SC5658	SOT-723	2SC5658 ↓ 产品名称 product name	BR	180-390	8000



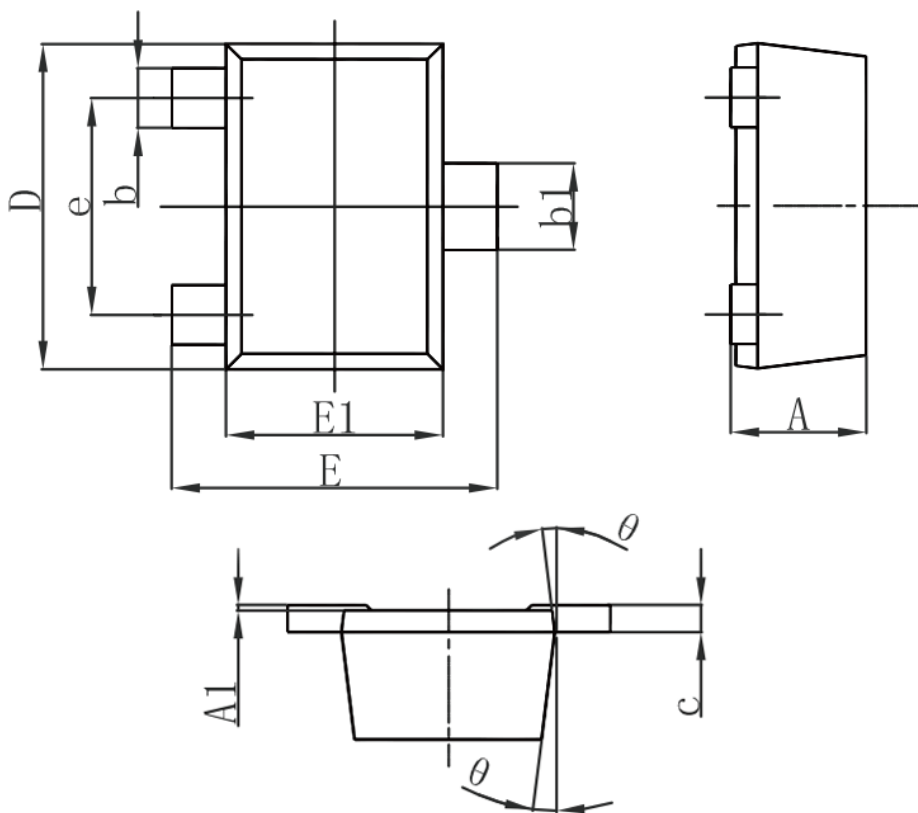
Typical Characteristics

Static Characteristic





SOT-723 Package Outline Dimensions



Symbol	Dimensions in Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A		0.500		0.020
A1	0.000	0.050	0.000	0.002
b	0.170	0.270	0.007	0.011
b1	0.270	0.370	0.011	0.015
c		0.150		0.006
D	1.150	1.250	0.045	0.045
E	1.150	1.250	0.045	0.049
E1	0.750	0.850	0.030	0.033
e	0.800TYP.		0.031TYP.	
θ	7° REF.		7° REF.	