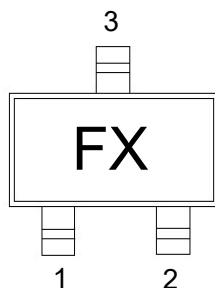


Plastic-Encapsulate Transistors(PNP)

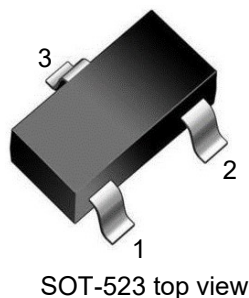
Features

- Reduces Board Space
- High h_{FE}
- Low $V_{CE(sat)}$

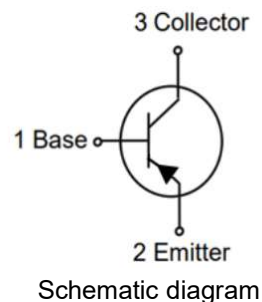


Marking and pin assignment

X:Rank



SOT-523 top view



Schematic diagram



Halogen-Free

Maximum Ratings($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-60	V
V_{CEO}	Collector-Emitter Voltage	-50	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current	-150	mA
P_C	Collector Power Dissipation	150	mW
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}\text{C}$

Electrical Characteristics (T_J=25°C unless otherwise noted)

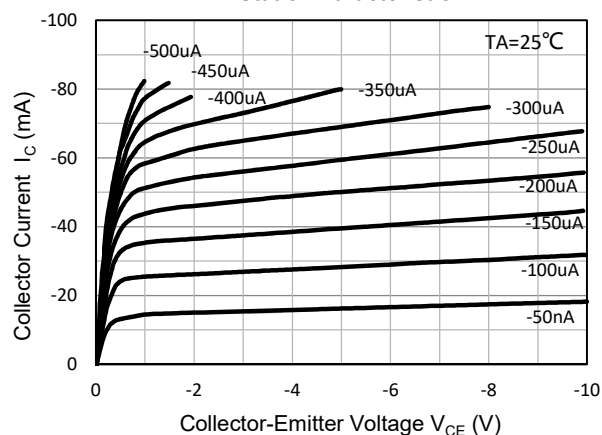
Symbol	Parameter	Condition	Min	Typ	Max	Unit
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =-50μA, I _E =0	-60	--	--	V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =-1mA, I _B =0	-50	--	--	V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =-50μA, I _C =0	-6	--	--	V
I _{CBO}	Collector cut-off current	V _{CB} =-60V, I _E =0	--	--	-100	nA
I _{EBO}	Emitter cut-off current	V _{EB} =-6V, I _C =0	--	--	-100	nA
h _{FE}	DC current gain	V _{CE} =-6V, I _C =-0.1mA	120	--	560	
V _{CE(sat)}	Collector-emitter saturation voltage	I _C =-50mA, I _B =-5mA	--	--	-0.5	V
V _{BE(sat)}	Base-emitter saturation voltage	I _C =-50mA, I _B =-5mA	--	--	-1.2	V
f _T	Transition frequency	V _{CE} =-12V, I _C =-2mA, f=30MHz	--	140	--	MHz
C _{ob}	Collector output capacitance	V _{CB} =-12V, I _E =0, f=1MHz	--	3.5	5	pF

Ordering Information (Example)

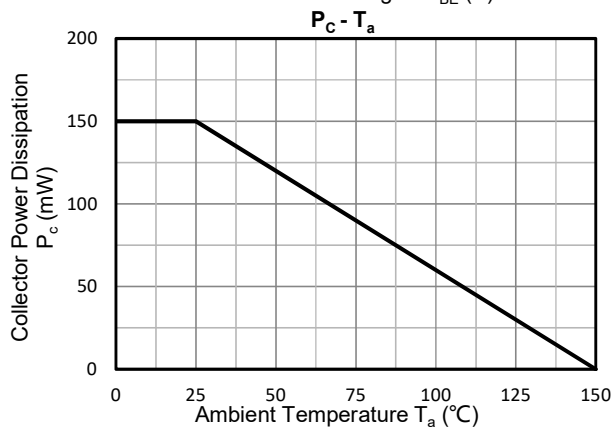
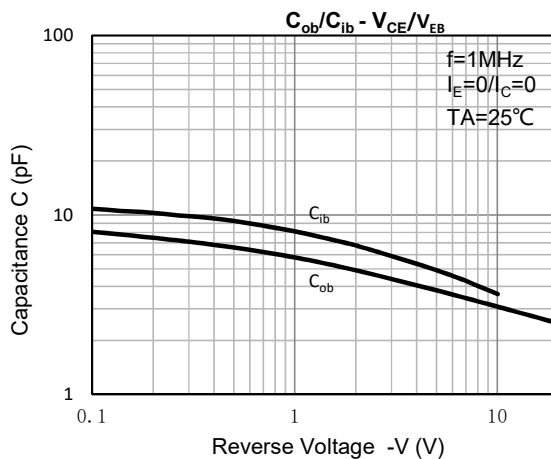
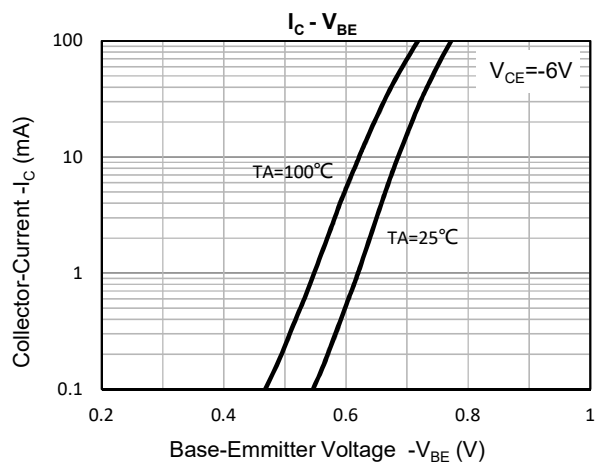
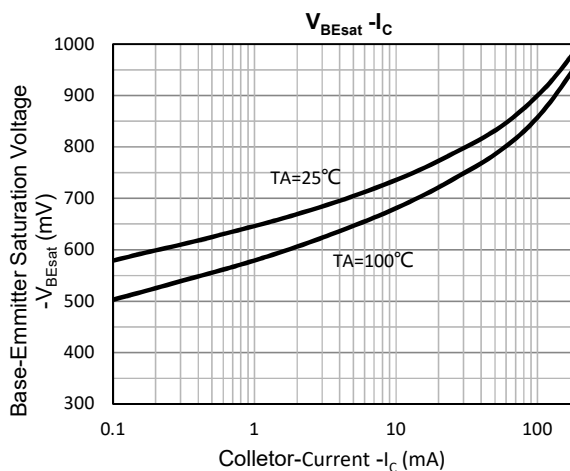
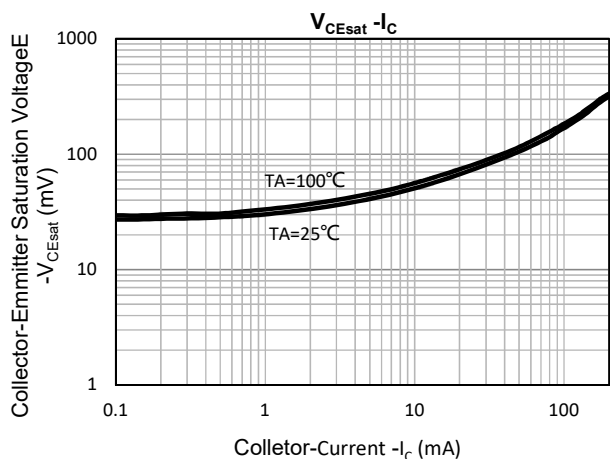
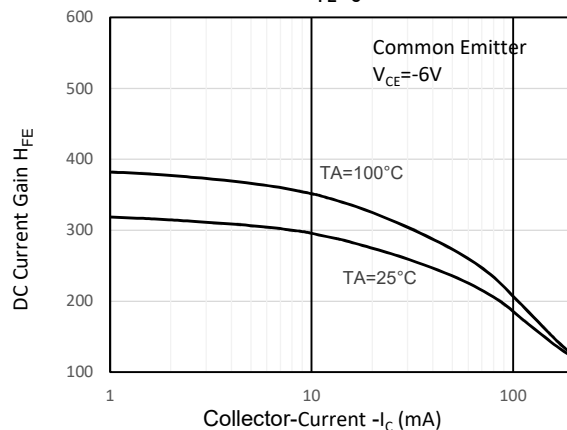
Type	Rank	Hfe	Marking	Package(pcs)	Delivery Mode
2SA1774	Q	120-270	FQ	3000	7"reel
	R	180-390	FR		
	S	270-560	FS		

Typical Operating Characteristics

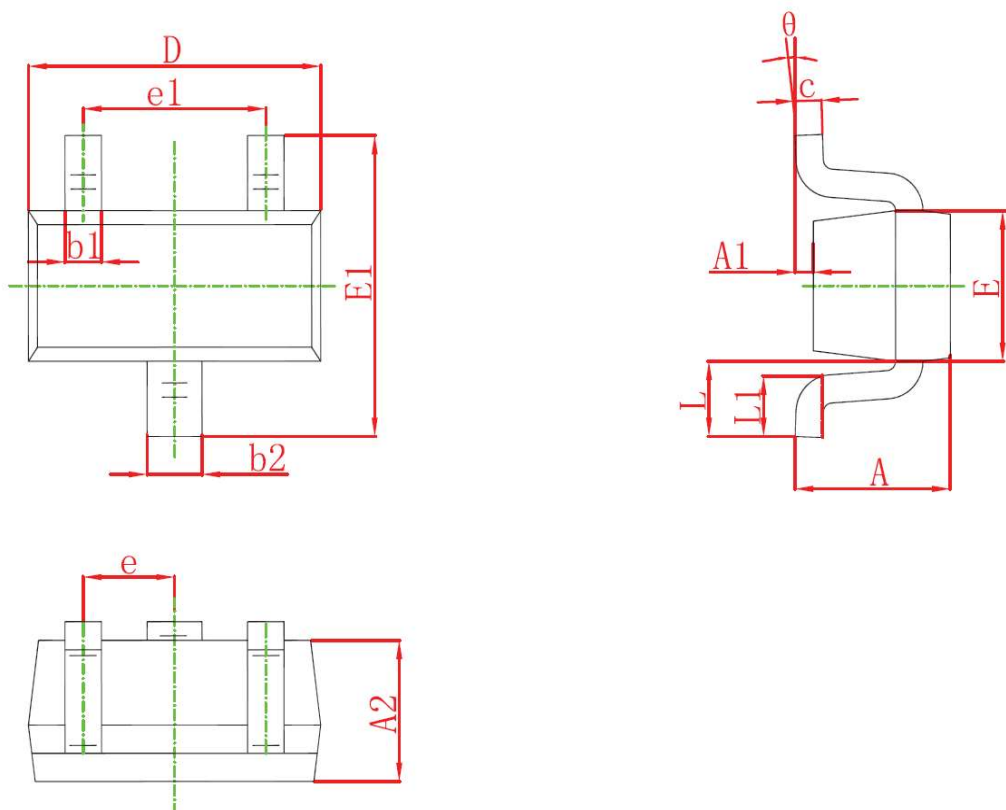
Static Characteristic



$H_{FE}-I_C$



SOT-523 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.700	0.900	0.028	0.035
A1	0.000	0.100	0.000	0.004
A2	0.700	0.800	0.028	0.031
b1	0.150	0.250	0.006	0.010
b2	0.250	0.350	0.010	0.014
c	0.100	0.200	0.004	0.008
D	1.500	1.700	0.059	0.067
E	0.700	0.900	0.028	0.035
E1	1.450	1.750	0.057	0.069
e	0.500TYP		0.020TYP	
e1	0.900	1.100	0.035	0.043
L	0.400REF		0.016REF	
L1	0.260	0.460	0.010	0.018
theta	0°	8°	0°	8°