

Features

- Complimentary to S8550W
- Collector Current: IC=0.5A



SOT-323

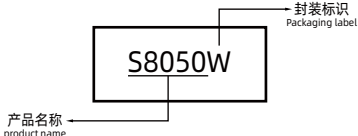
Absolute Maximum Ratings(TA=25℃)

Symbol	Parameter	Value	Uniat
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	25	V
V _{EB0}	Emitter-Base Voltage	5	V
I _C	Collector Current	0.5	A
P _C	Collector Power Dissipation	0.3	W
T _J ,T _{stg}	Operation Junction And Storage Temperature Range	-55 ~ +150	℃/W

Electrical Characteristics (TA=25℃ unless otherwise specified)

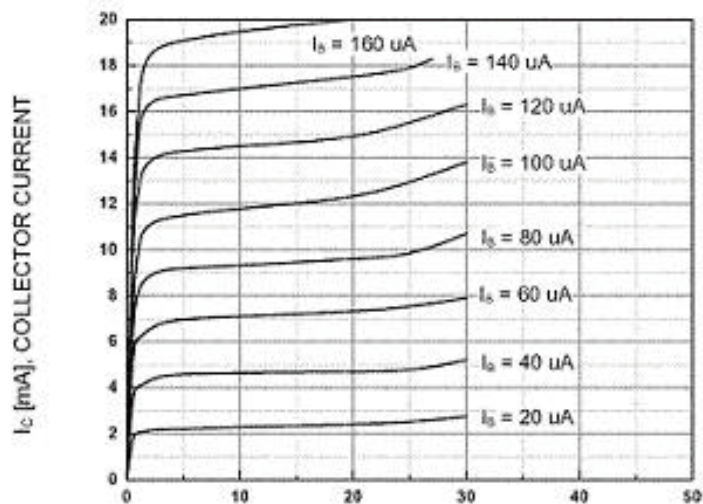
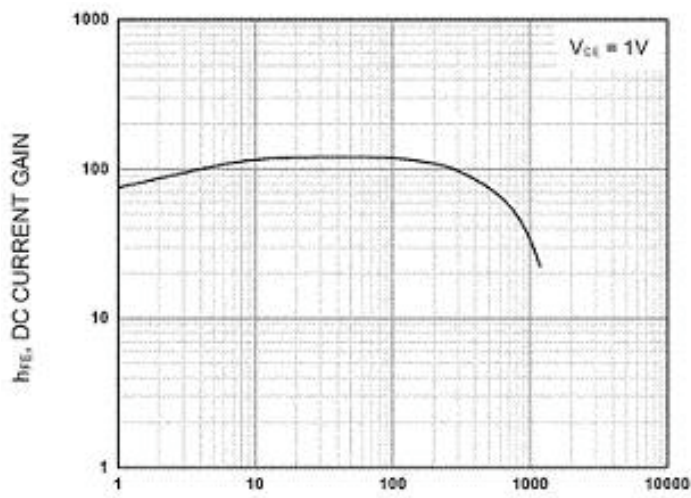
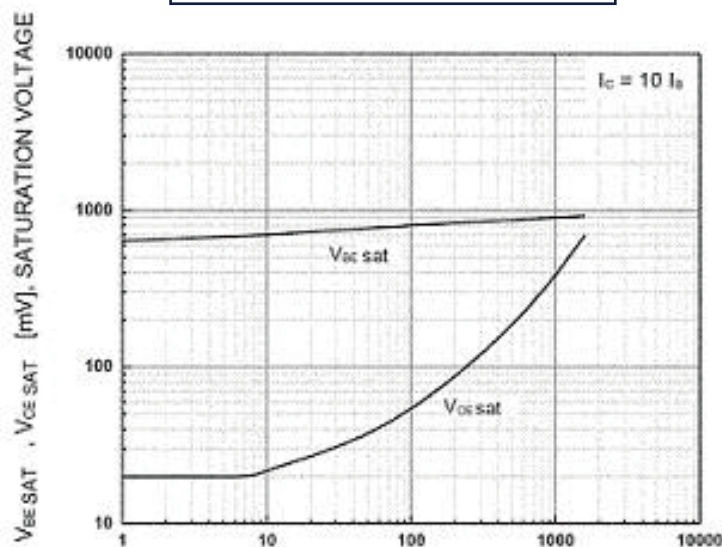
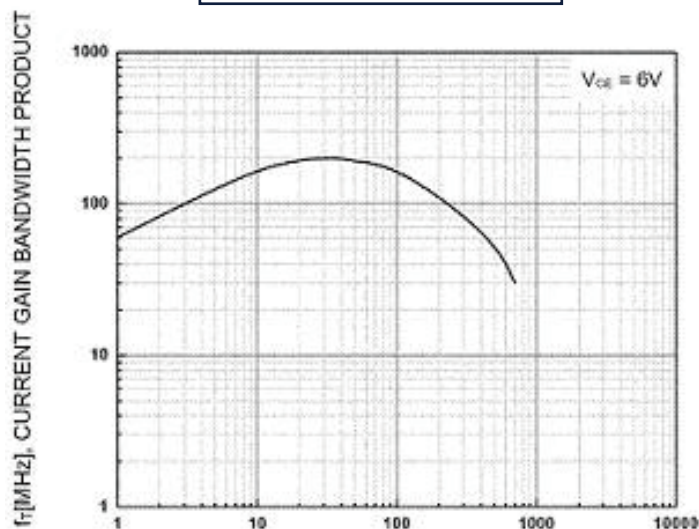
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =100μA, I _E =0	40			V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =1mA, I _B =0	25			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =100μA, I _C =0	5			V
I _{CBO}	Collector cut-off current	V _{CB} =40V, I _E =0			0.1	μA
I _{CEO}	Collector cut-off current	V _{CB} =20V, I _E =0			0.1	μA
I _{EBO}	Emitter cut-off current	V _{EB} =5V, I _C =0			0.1	μA
h _{FE(1)}	DC current gain	V _{CE} =1V, I _C =50mA	120		400	
h _{FE(2)}		V _{CE} =1V, I _C =500mA	50			
V _{CE(sat)}	Collector-emitter saturation voltage	I _C =500mA, I _B =50mA			0.6	V
V _{BE(sat)}	Base-emitter saturation voltage	I _C =500mA, I _B =50mA			1.2	V
f _T	Transition frequency	V _{CE} =6V, I _C =20mA, f=30MHz	150			MHz

Ordering information

Product ID	Pack	Naming rule	Marking	hFE(1)	Qty(PCS)
S8050W	SOT-323	 封装标识 Packaging label S8050W 产品名称 product name	J3Y	200-350	3000

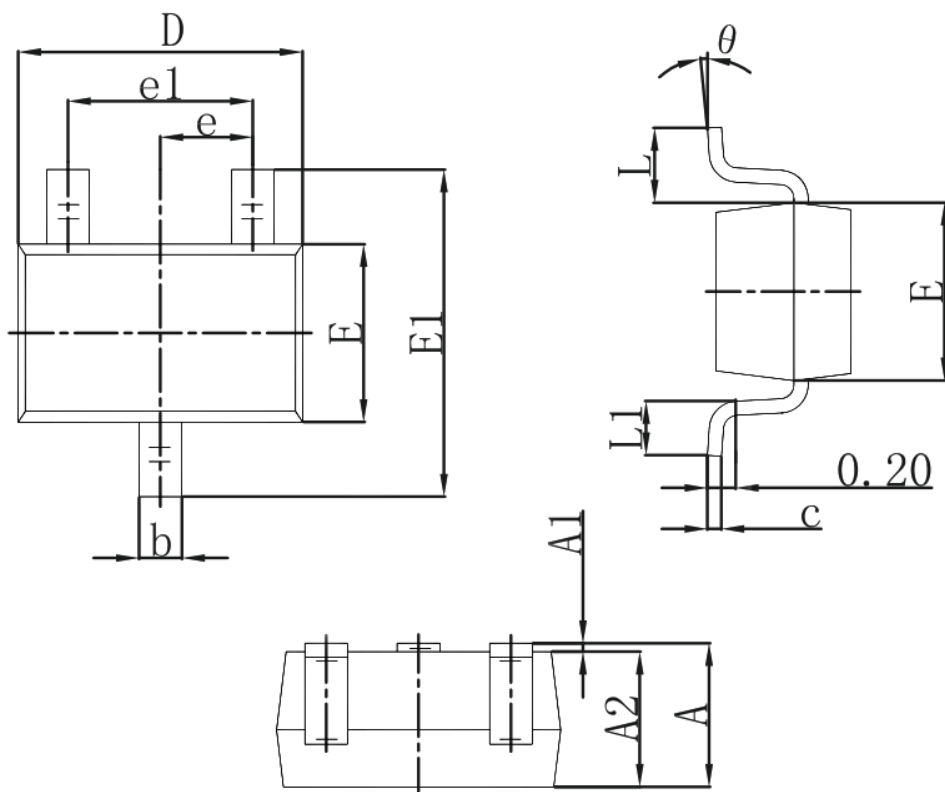


Typical Characteristics

COLLECTOR-EMITTER VOLTAGE V_{CE} (V)COLLECTOR CURRENT I_c (mA)COLLECTOR CURRENT I_c (mA)COLLECTOR CURRENT I_c (mA)



SOT-323 Package Outline Dimensions



Symbol	Dimensions in Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
c	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	1.350	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°