

Features

- Complimentary to S8550W
- Collector Current: $I_C=0.5A$



SOT-323

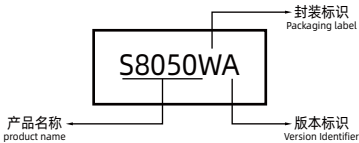
Absolute Maximum Ratings($T_A=25^{\circ}C$)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	40	V
V_{CEO}	Collector-Emitter Voltage	25	V
V_{EBO}	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	$^{\circ}C/W$

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

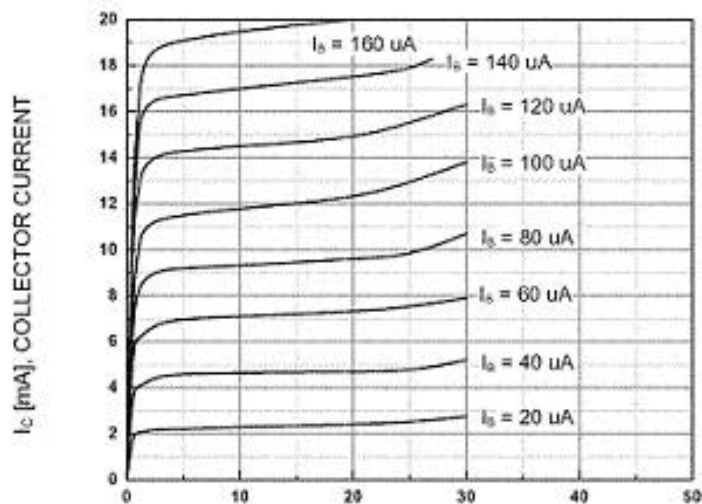
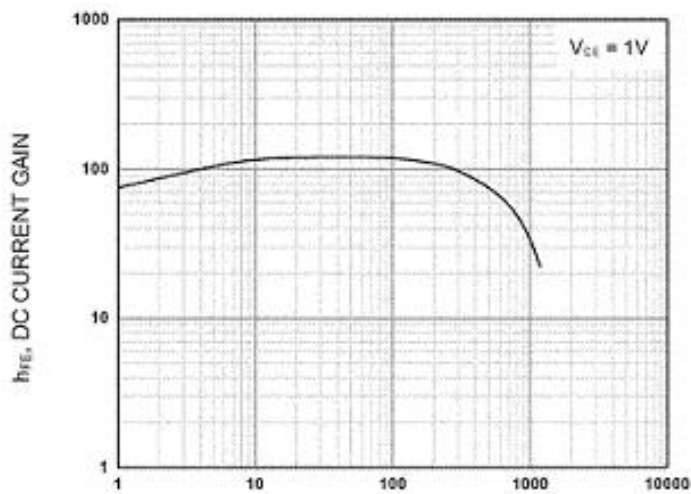
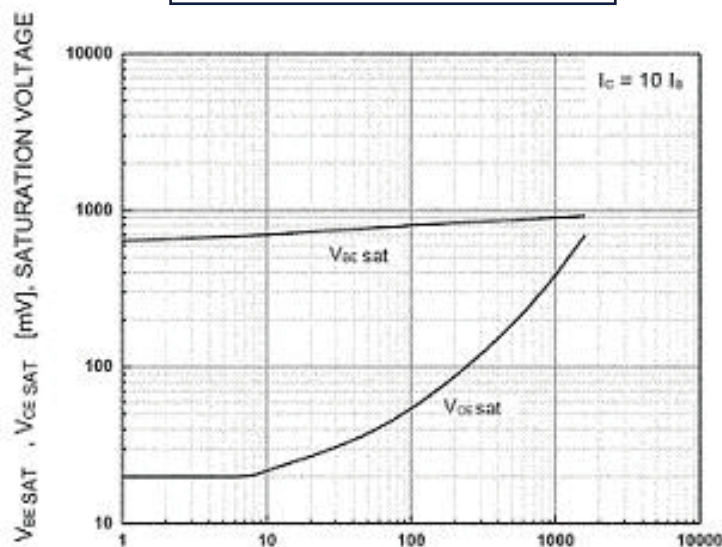
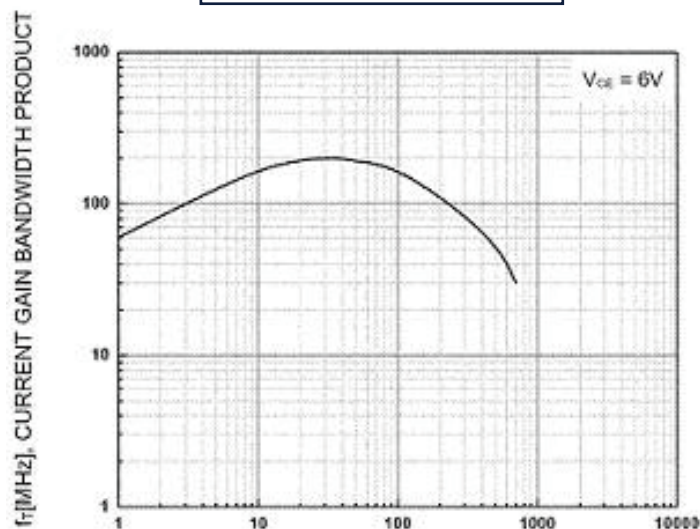
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=100\mu A, I_E=0$	40			V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=1mA, I_B=0$	25			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=100\mu A, I_C=0$	5			V
I_{CBO}	Collector cut-off current	$V_{CB}=40V, I_E=0$			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	$h_{FE(1)}$	Qty(PCS)
S8050WA	SOT-323		J3Y	200-350	3000

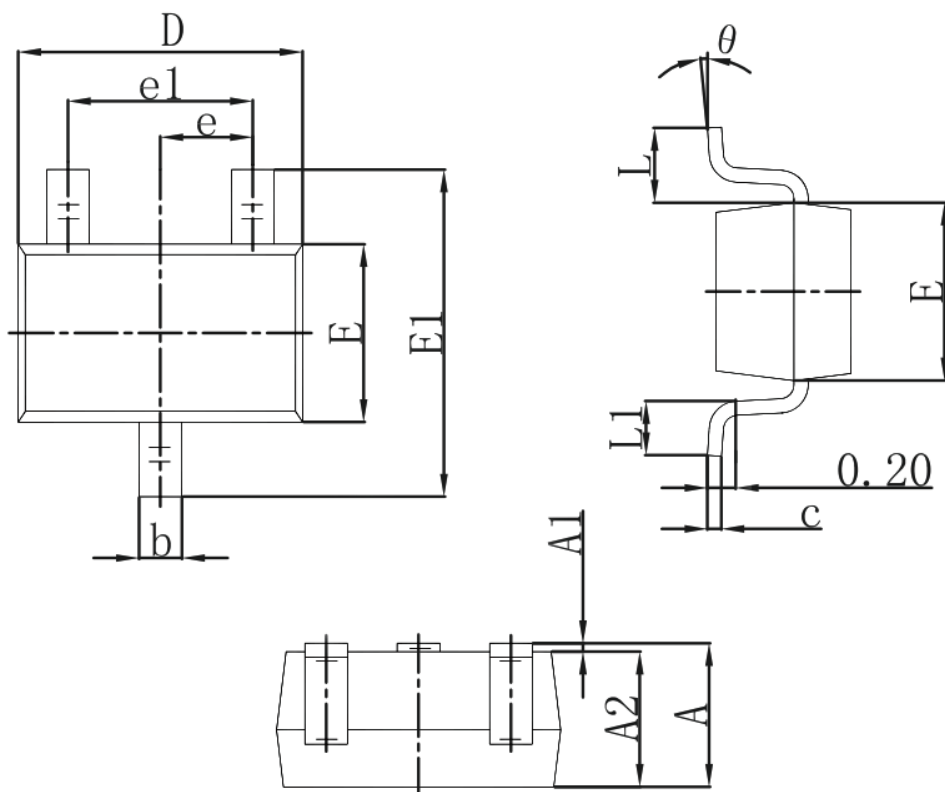


Typical Characteristics

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°