

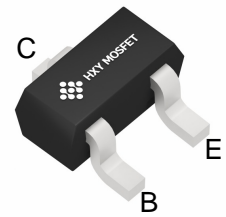


Features

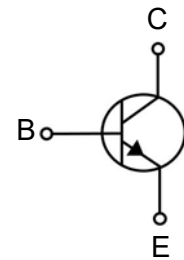
Collector current $I_C=1.5A$.

Power amplifier applications.

Complementary to SS8550W.



SOT-323



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SS8050W	SOT-323	Y1	3000

Maximum Ratings (Ta=25 unless otherwise noted)

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	1.5	A
P_C	Collector Power Dissipation	250	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	400	$^{\circ}C/W$
T_J, T_{stg}	Operation Junction And Storage Temperature Range	-55~+150	$^{\circ}C$

Electrical Characteristics(Ta=25 unless otherwise specified)

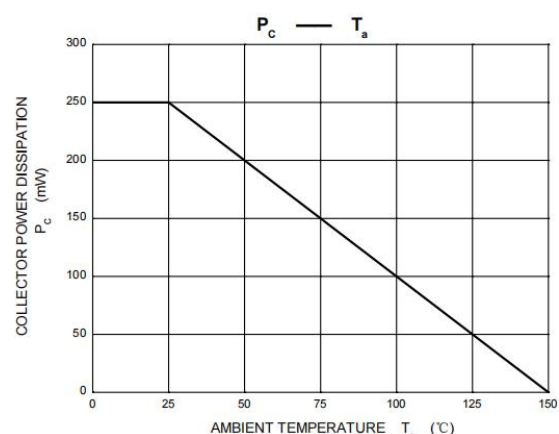
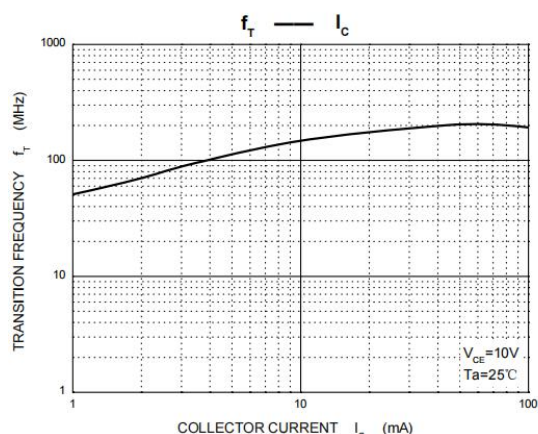
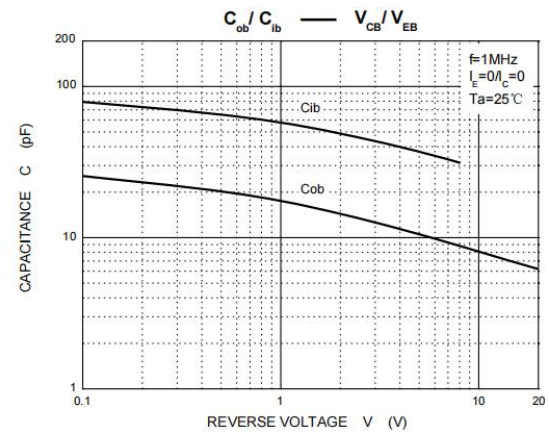
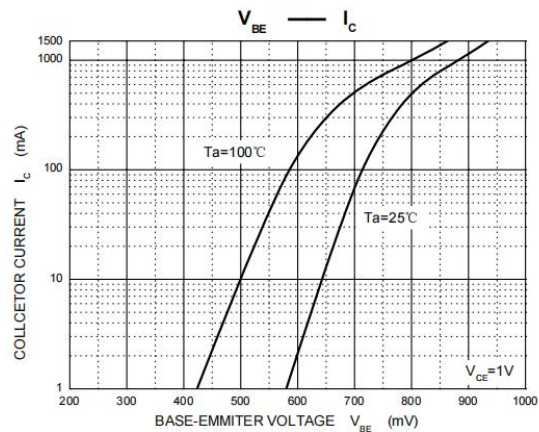
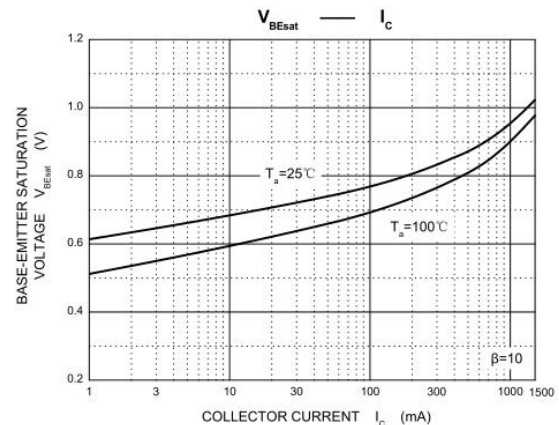
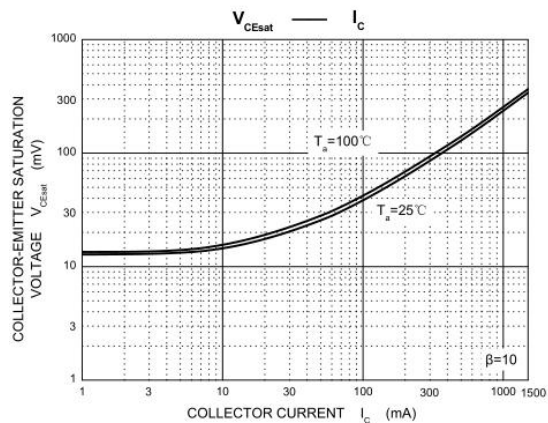
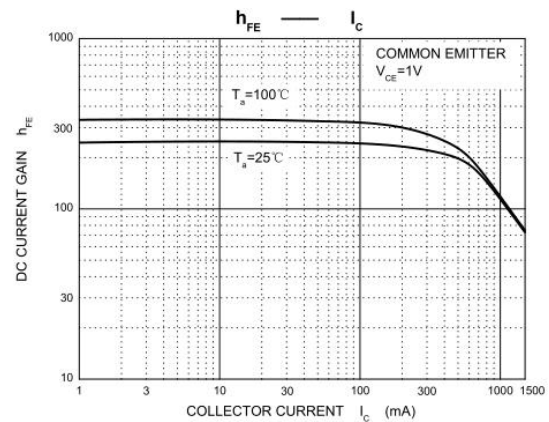
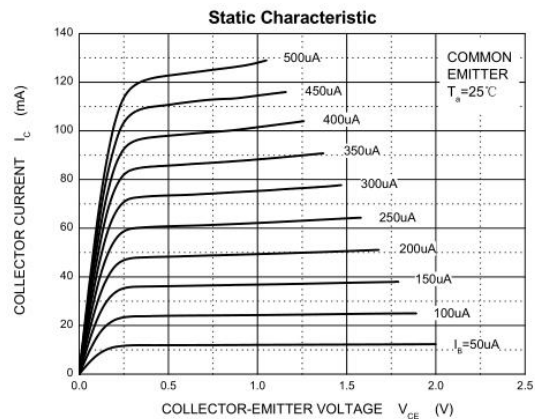
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=100\mu A, I_E=0$	40			V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=0.1mA, I_B=0$	25			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=100\mu A, I_C=0$	5			V
I_{CEO}	Collector cut-off current	$V_{CE}=20V, I_E=0$			100	nA
I_{CBO}	Collector cut-off current	$V_{CB}=40V, I_E=0$			100	nA
I_{EBO}	Emitter cut-off current	$V_{EB}=5V, I_C=0$			100	nA
$h_{FE(1)}$	DC current gain(1)	$V_{CE}=1V, I_C=100mA$	120		400	
$h_{FE(2)}$	DC current gain(2)	$V_{CE}=1V, I_C=800mA$	40			
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=800mA, I_B=80mA$			0.5	V
$V_{BE(sat)}$	Base-emitter saturation voltage				1.2	V
f_T	Transition frequency	$V_{CE}=10V, I_C=50mA, f=300MHz$	100			MHz
C_{ob}	Collector output capacitance	$V_{CB}=10V, I_E=0, f=1MHz$			15	pF

Classification Of h_{FE}

Rank	L	H	J
Range	120-200	200-350	300-400

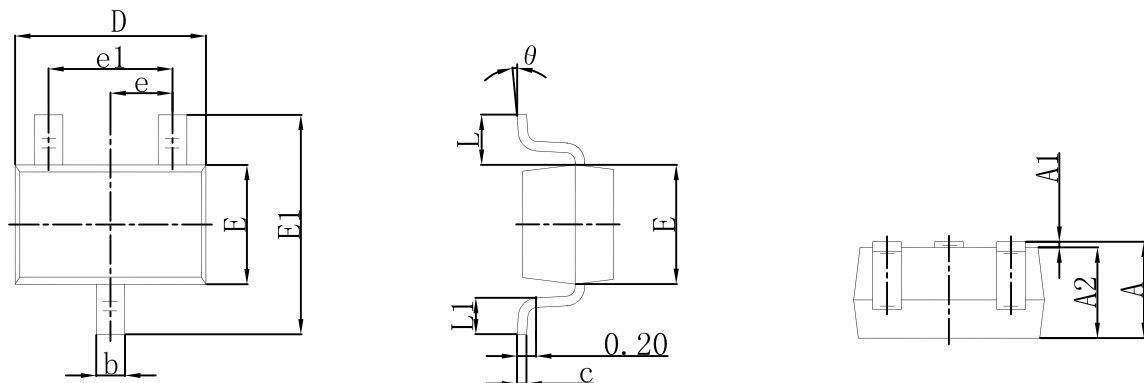


Typical Characteristics





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	2.150	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
K	0°	8°	0°	8°



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