

### **FEATURES**

Collector current I<sub>C</sub>=1.5A. Power amplifier applications. Complementary to SS8550W.

### SOT-323

С

	Во—

## Package Marking and Ordering Information

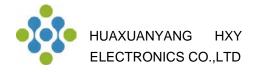
Product ID	Pack	Marking	Qty(PCS)
SS8050W	SOT-323	Y1	3000

## MAXIMUM RATINGS (Ta=25 unless otherwise noted)

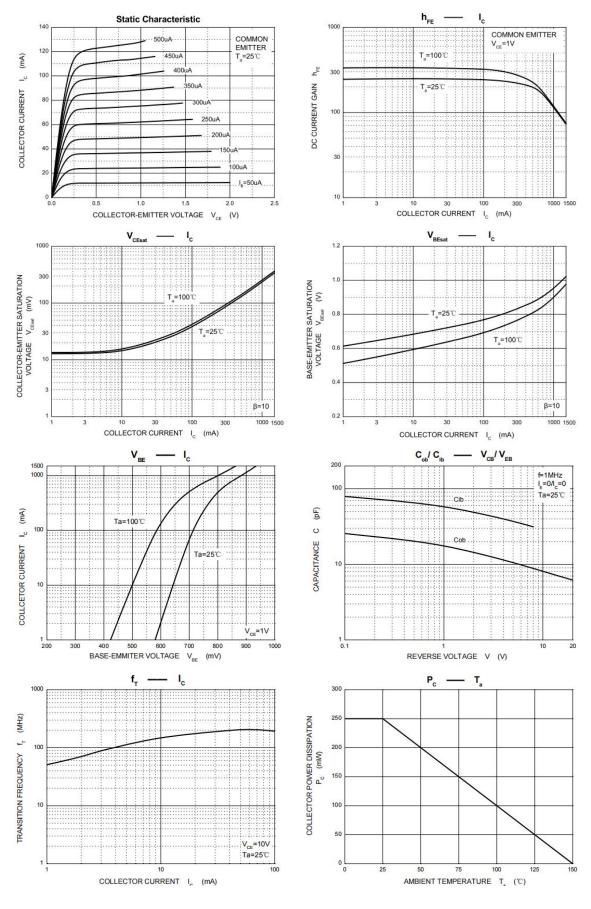
Symbol	Parameter	Value	Unit	
V <sub>CBO</sub>	Collector-Base Voltage	40	V	
V <sub>CEO</sub>	CEO Collector-Emitter Voltage		V	
V <sub>EBO</sub>	/ <sub>EBO</sub> Emitter-Base Voltage		V	
Ιc	Collector Current	1.5	A	
Pc	Collector Power Dissipation	250	mW	
R <sub>ØJA</sub>	Thermal Resistance From Junction To Ambient	ction To Ambient 400		
T <sub>J</sub> ,T <sub>stg</sub> Operation Junction And Storage Temperature Range		-55~+150	°C	

## ELECTRICAL CHARACTERISTICS(Ta=25 unless otherwise noted)

Symbol	Parameter	Test conditions	Min	Тур	Max	Unit
V <sub>(BR)CBO</sub>	Collector-base breakdown voltage	I <sub>c</sub> =100μΑ, I <sub>E</sub> =0	40			V
V <sub>(BR)CEO</sub>	Collector-emitter breakdown voltage	I <sub>C</sub> =0.1mA, I <sub>B</sub> =0	25			V
V <sub>(BR)EBO</sub>	Emitter-base breakdown voltage	I <sub>E</sub> =100μΑ, I <sub>C</sub> =0	5			V
ICEO	Collector cut-off current	V <sub>CE</sub> =20V, I <sub>E</sub> =0			100	nA
Ісво	Collector cut-off current	V <sub>CB</sub> =40V, I <sub>E</sub> =0			100	nA
I <sub>EBO</sub>	Emitter cut-off current	V <sub>EB</sub> =5V, I <sub>C</sub> =0			100	nA
h <sub>FE</sub> (1)	DC current gain(1)	V <sub>CE</sub> =1V, I <sub>C</sub> =100mA	120		400	
h <sub>FE</sub> (2)	DC current gain(2)	V <sub>CE</sub> =1V, I <sub>C</sub> =800mA	40			
V <sub>CE(sat)</sub>	Collector-emitter saturation voltage				0.5	V
V <sub>BE(sat)</sub>	Base-emitter saturation voltage	– I <sub>C</sub> =800mA, I <sub>B</sub> =80mA			1.2	V
f⊤	Transition frequency	V <sub>CE</sub> =10V, I <sub>C</sub> =50mA, f=300MHz	100			MHz
C <sub>Ob</sub>	Collector output capacitance	V <sub>CB</sub> =10V,I <sub>E</sub> =0,f=1MHz			15	pF

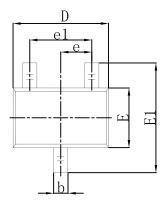


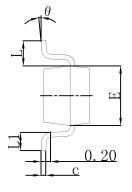
#### **Typical Characteristics**

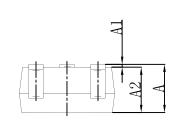




# SOT-323 Package Outline Dimensions







Symbol	<b>Dimensions In Millimeters</b>		Dimensions In Inches		
Symbol	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	
С	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	
е	0.650	TYP 0.026 TYP		5 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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