

#### Features

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

# Package Marking and Ordering Information

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



**SOT-323** 

Bo-C E

# Maxmim Ratings (Ta=25 unless otherwise noted)

Symbol	Parameter	Value	Unit
V <sub>CBO</sub>	Collector-Base Voltage	40	V
V <sub>CEO</sub>	Collector-Emitter Voltage	25	V
V <sub>EBO</sub>	Emitter-Base Voltage	5	V
lc	Collector Current	1.5	A
Pc	Collector Power Dissipation	250	mW
Roja	Thermal Resistance From Junction To Ambient	400	°C/W
T <sub>J</sub> ,T <sub>stg</sub>	Operation Junction And Storage Temperature Range	-55~+150	°C

### Electrcal Charcteristics (Ta=25 unless otherwise noted)

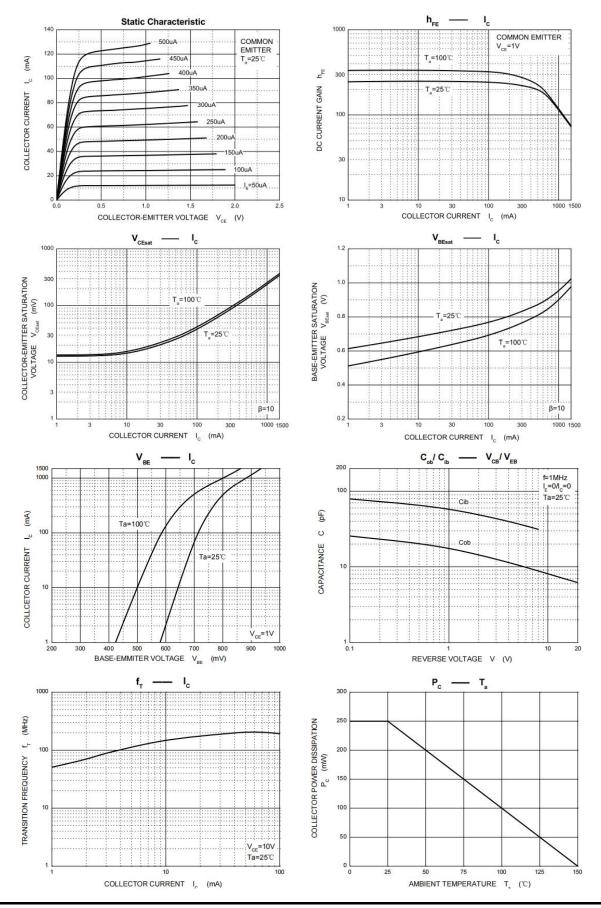
Symbol	Parameter	Test conditions	Min	Тур	Max	Unit
V <sub>(BR)CBO</sub>	Collector-base breakdown voltage	I <sub>C</sub> =100μΑ, I <sub>E</sub> =0	40			V
V <sub>(BR)CEO</sub>	Collector-emitter breakdown voltage	I <sub>c</sub> =0.1mA, I <sub>B</sub> =0	25			V
V <sub>(BR)EBO</sub>	Emitter-base breakdown voltage	I <sub>E</sub> =100μΑ, I <sub>C</sub> =0	5			V
I <sub>CEO</sub>	Collector cut-off current	V <sub>CE</sub> =20V, I <sub>E</sub> =0			100	nA
I <sub>CBO</sub>	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
COb	Collector output capacitance	V <sub>CB</sub> =10V,I <sub>E</sub> =0,f=1MHz			15	pF

## Classifiction Of h<sub>FE</sub>

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

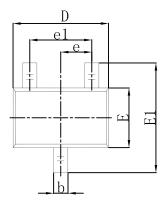


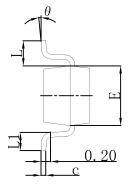
### **Typical Characteristics**

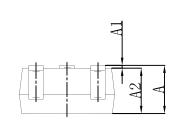




# SOT-323 Package Outline Dimensions







Symbol	<b>Dimensions In Millimeters</b>		<b>Dimensions In Inches</b>		
	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		
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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