SS8050W   TRANSISTOR(NPN)

FEATURES

● Complimentary to SS8550W

SOT－323

1. BASE
2. EMITTER
3. COLLECTOR
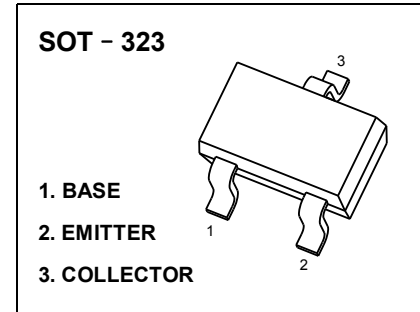
MAXIMUM RATINGS (T$_A$=25℃ unless otherwise noted)

Symbol	Parameter	Value	Units
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 -Continuous	1.5	A
P$_C$	Collector Power Dissipation	0.2	W
T$_j$	Junction Temperature	150	℃
T$_{stg}$	Storage Temperature	-55-150	℃

## ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V$_{(BR)CBO}$	I$_C$= 100μA, I$_E$=0	40			V
Collector-emitter breakdown voltage	V$_{(BR)CEO}$	I$_C$= 0.1mA, I$_B$=0	25			V
Emitter-base breakdown voltage	V$_{(BR)EBO}$	I$_E$=100μA, I$_C$=0	5			V
Collector cut-off current	I$_{CBO}$	V$_{CB}$=40V, I$_E$=0			0.1	μA
Collector cut-off current	I$_{CEO}$	V$_{CB}$=20V, I$_E$=0			0.1	μA
Emitter cut-off current	I$_{EBO}$	V$_{EB}$= 5V, I$_C$=0			0.1	μA
DC current gain	h$_{FE(1)}$	V$_{CE}$=1V, I$_C$= 100mA	120		400	
	h$_{FE(2)}$	V$_{CE}$=1V, I$_C$= 800mA	40			
Collector-emitter saturation voltage	V$_{CE(sat)}$	I$_C$=800mA, I$_B$= 80mA			0.5	V
Base-emitter saturation voltage	V$_{BE(sat)}$	I$_C$=800mA, I$_B$= 80mA			1.2	V
Transition frequency	f$_T$	V$_{CE}$=10V, I$_C$= 50mA f=30MHz	100			MHz

CLASSIFICATION OF h$_{FE}$

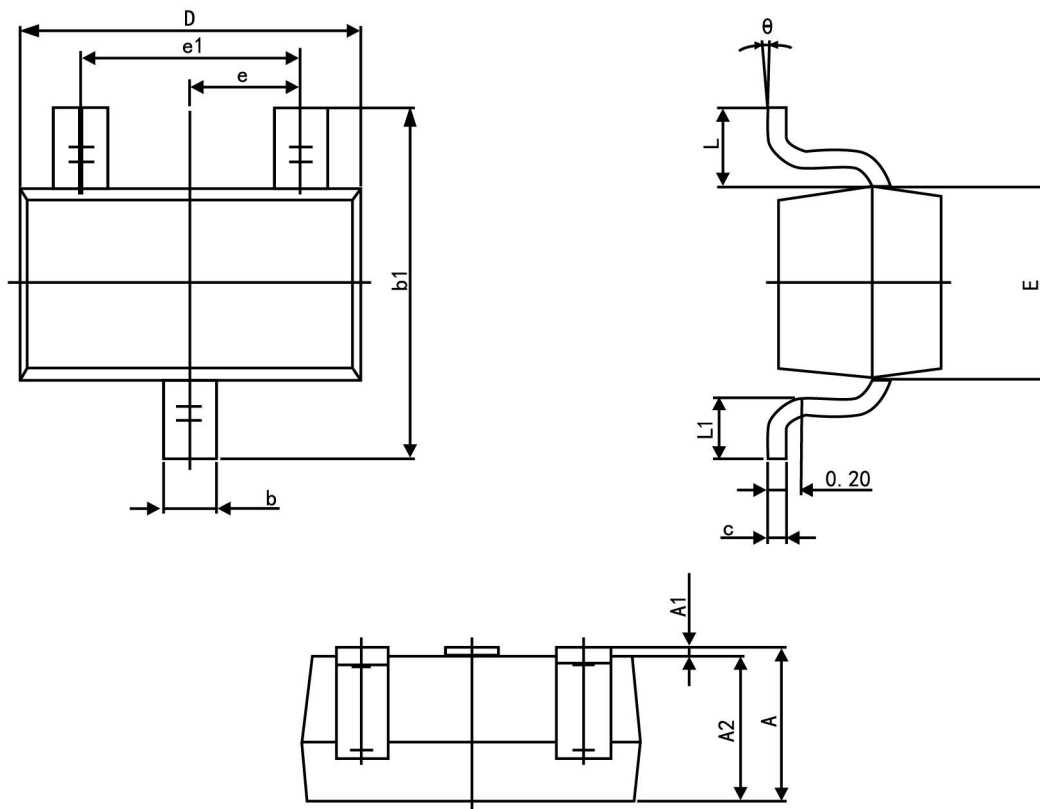| RANK	L	H	J
RANGE	120－200	200－350	300－400

TYPICAL CHARACTERISTICS
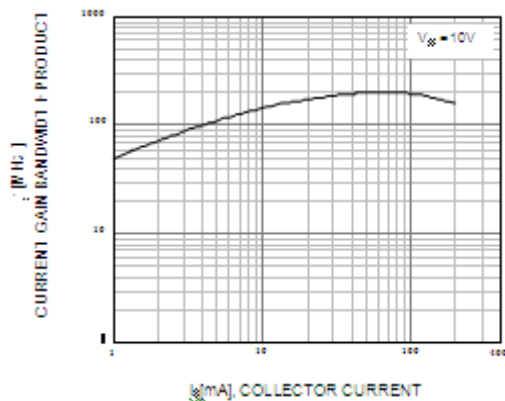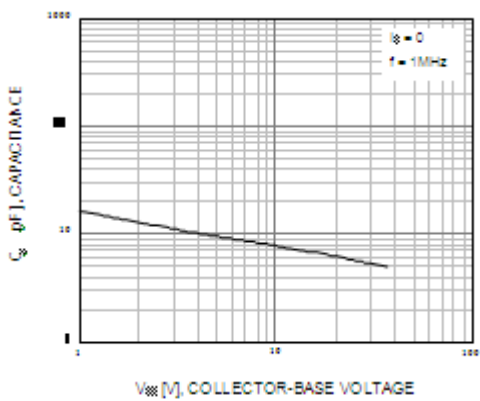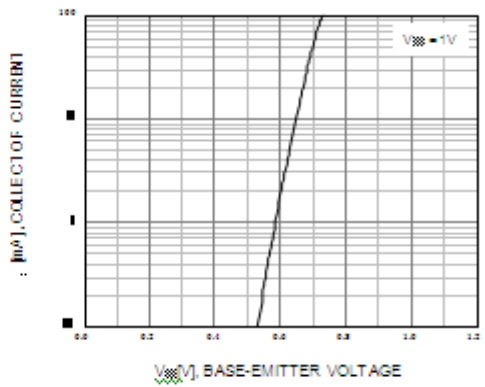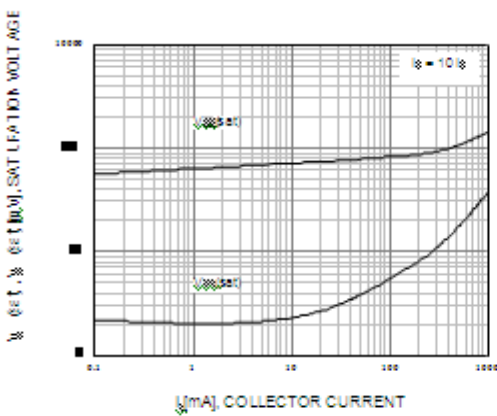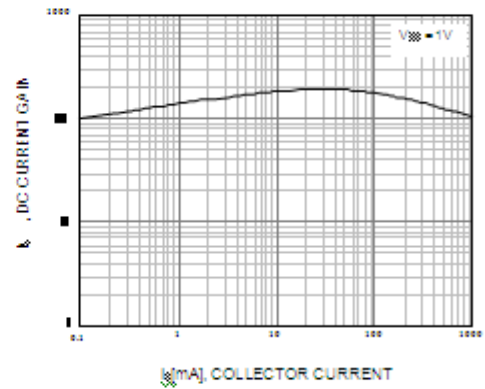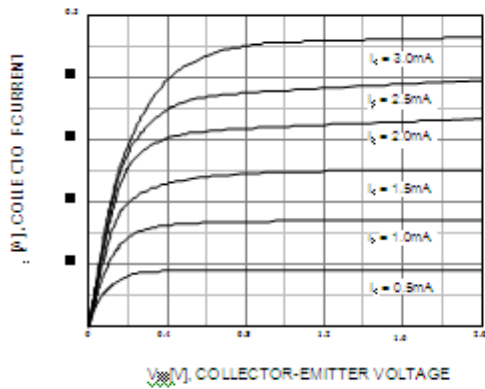
PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-323

Symbol	Dimension in Millimeters	
	Min	**Max**
A	0.900	1.100
A1	0.000	0.100
A2	0.900	1.000
b	0.200	0.400
c	0.080	0.150
D	2.000	2.200
E	1.150	1.350
E1	2.150	2.450
e	0.650 TYP.	
e1	1.200	1.400
L	0.525 REF.	
L1	0.260	0.460
θ	**0°**	8°

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