

SS8050

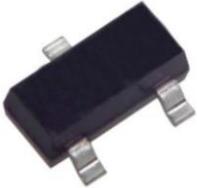
TRANSISTOR (NPN)

Features

- Complimentary to SS8550
- RoHS compliant package

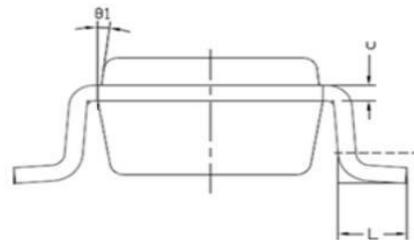
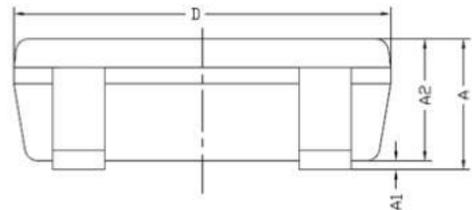
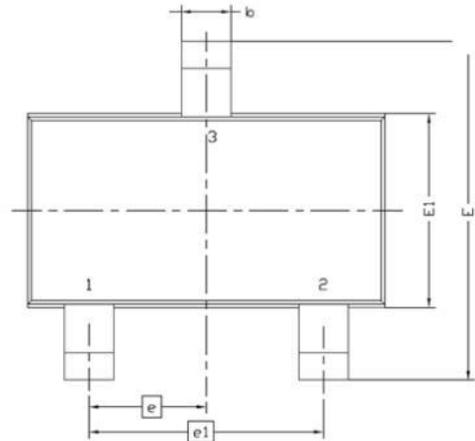
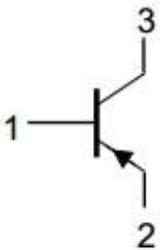
Packing & Order Information

3,000/Reel



**RoHS
COMPLIANT**

Graphic symbol



Symbol	MILLIMETERS	
	MIN	MAX
A	0.8	1.2
A1	0	0.1
A2	0.7	1.1
b	0.3	0.5
c	0.1	0.2
D	2.7	3.1
E	2.6	3
E1	1.4	1.8
e	0.95 BSC	
e1	1.9 BSC	
L	0.3	0.6
θ1	7° NOM	

SS8050

TRANSISTOR (NPN)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

MAXIMUM RATING @ Ta=25°C 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 Dissipation	0.3	W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55 to +150	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

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

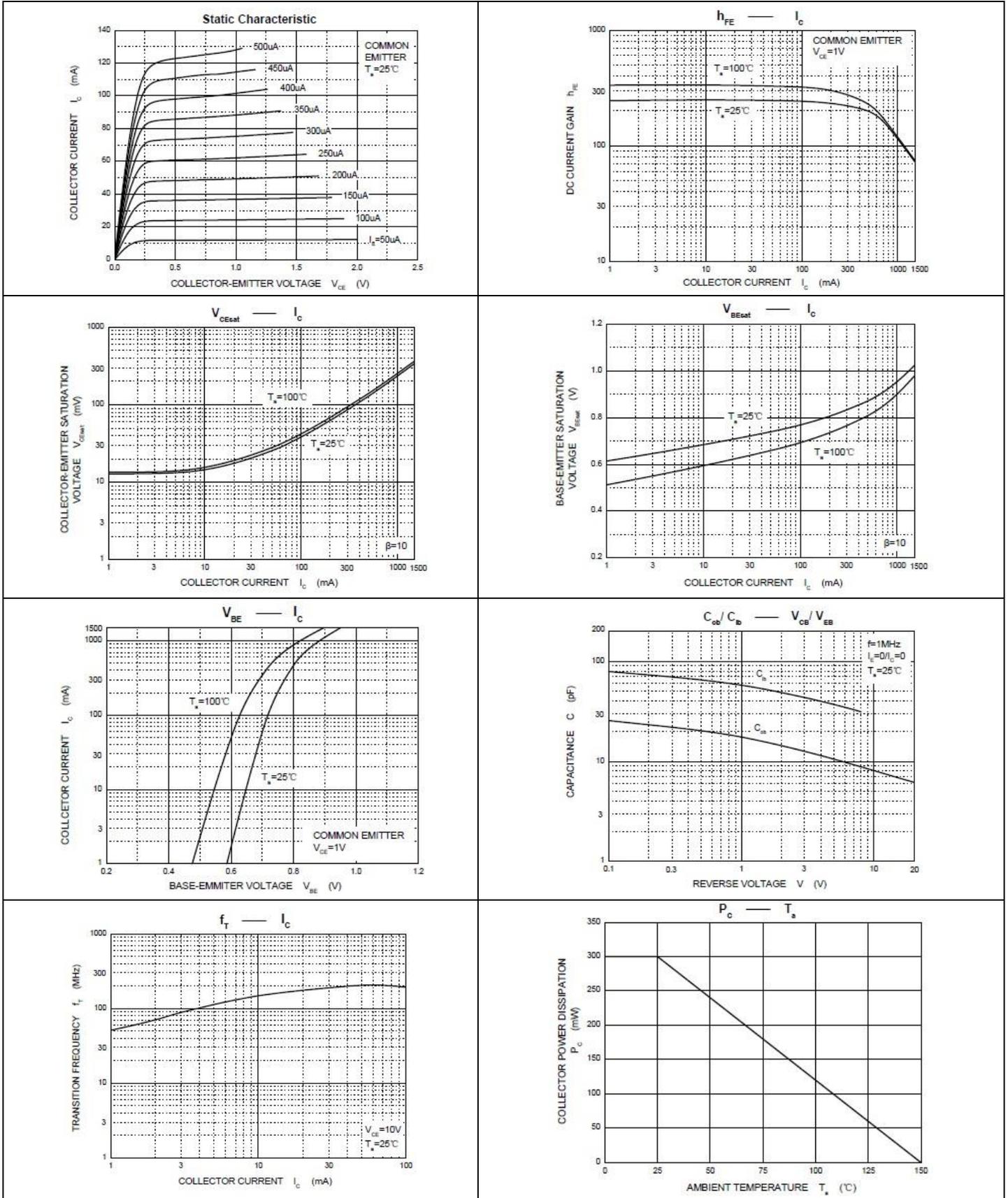
CLASSIFICATION OF h_{FE(1)}

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

SS8050

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Typical Characteristics



SS8050

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