

SS8050

NPN TRANSISTOR

Features

- RoHS compliant package
- Case : SOT-23

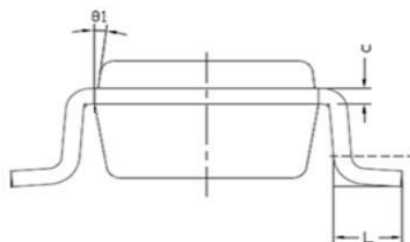
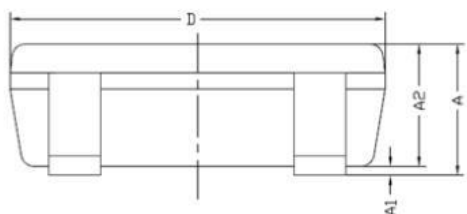
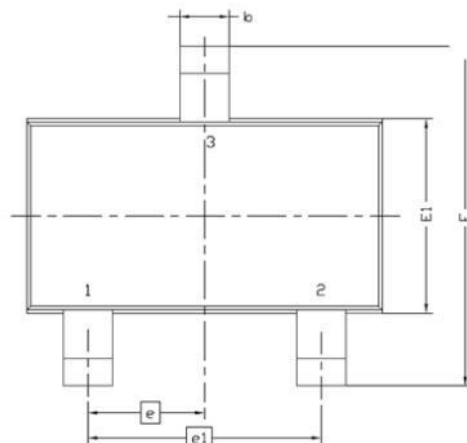
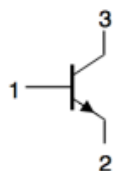
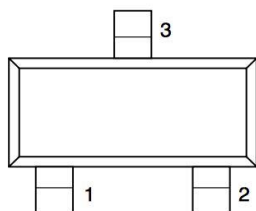
Packing & Order Information

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

NPN TRANSISTOR

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

MAXIMUM RATING @ Ta=25°C unless otherwise noted

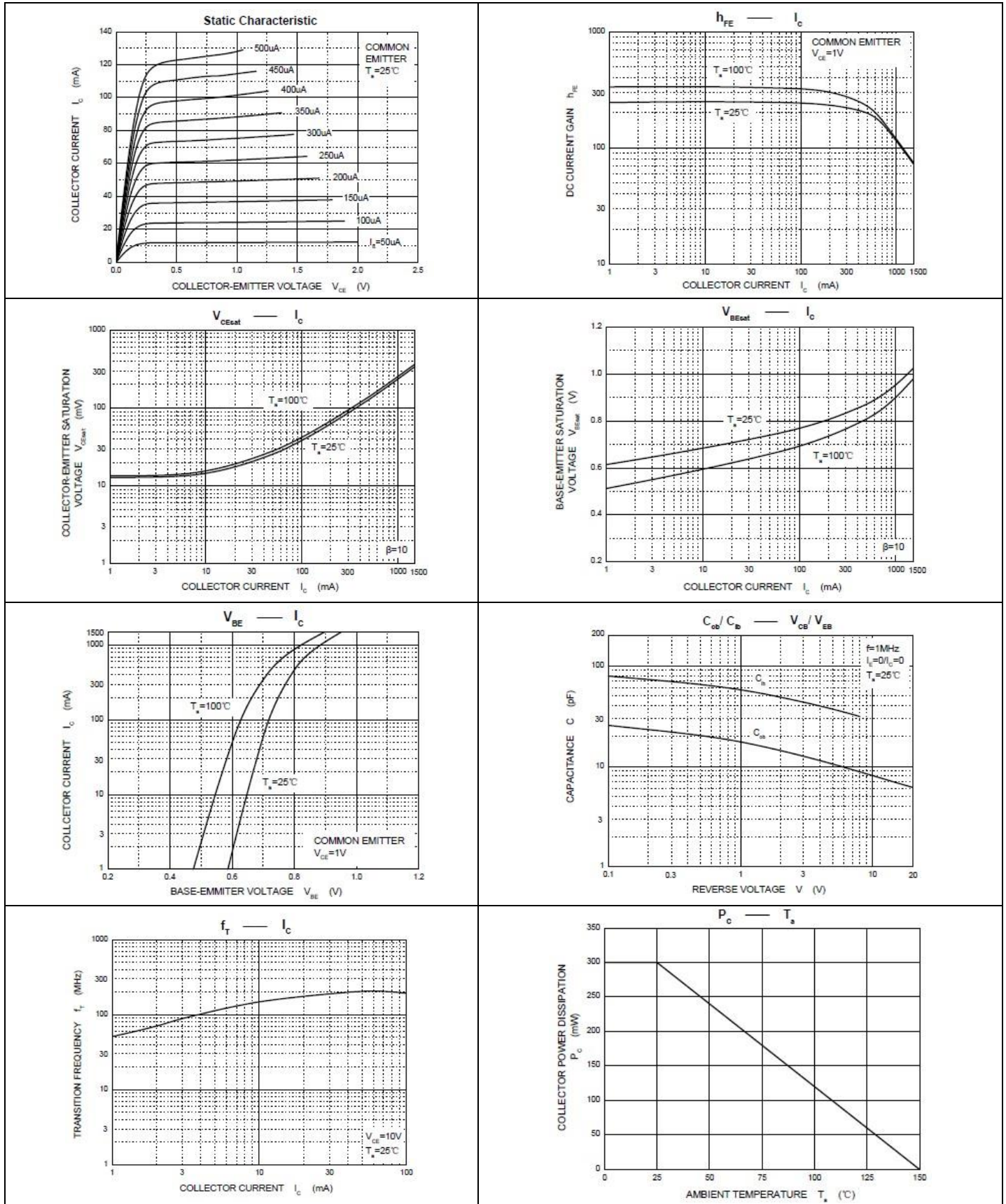
Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	25	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current	1.5	A
P _C	Collector Dissipation	0.3	W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55 to +150	°C

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

NPN TRANSISTOR

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Bruckewell Technology Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Bruckewell"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product. Bruckewell makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Bruckewell disclaims

- (i) Any and all liability arising out of the application or use of any product.
- (ii) Any and all liability, including without limitation special, consequential or incidental damages.
- (iii) Any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Bruckewell's knowledge of typical requirements that are often placed on Bruckewell products in generic applications.

Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time.

Product specifications do not expand or otherwise modify Bruckewell's terms and conditions of purchase, including but not limited to the warranty expressed therein.