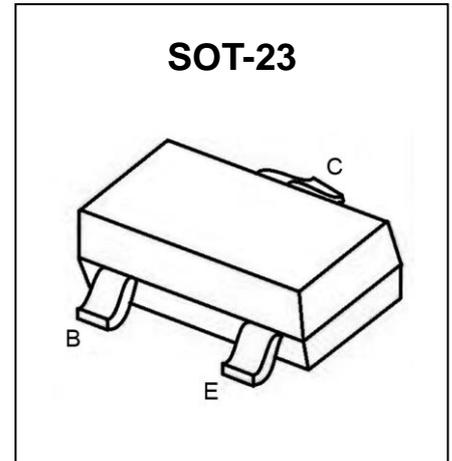




S8050 Transistor(NPN)

Feature

- Good current characters
- Small saturable voltage drop
- High Breakdown voltage



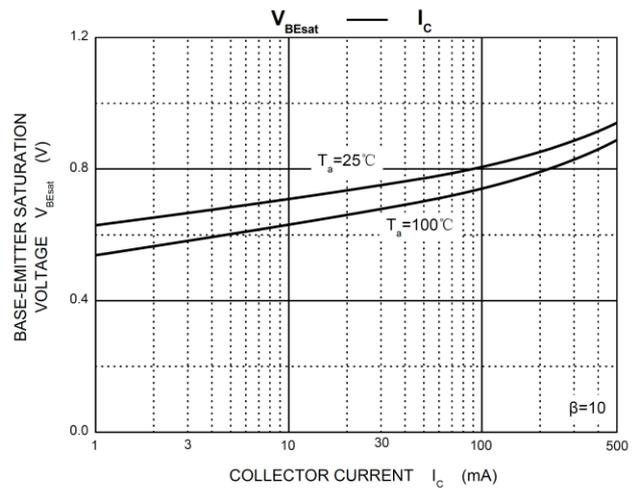
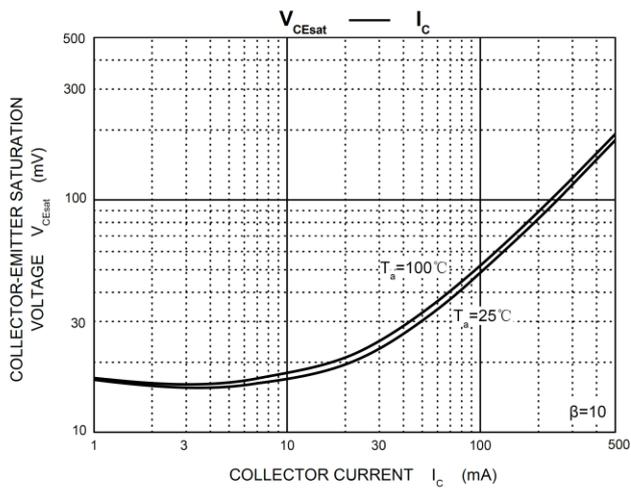
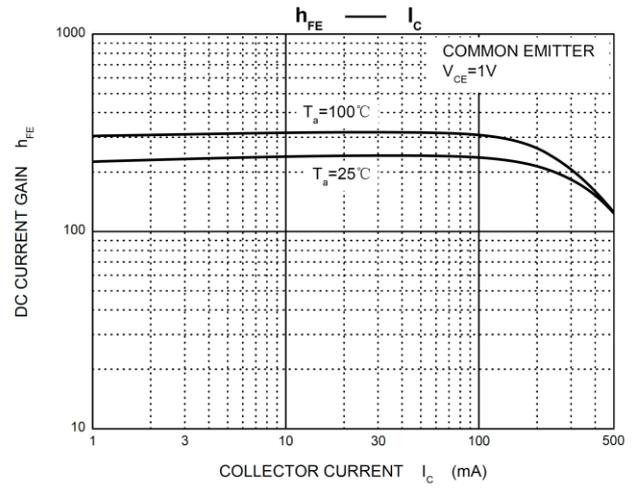
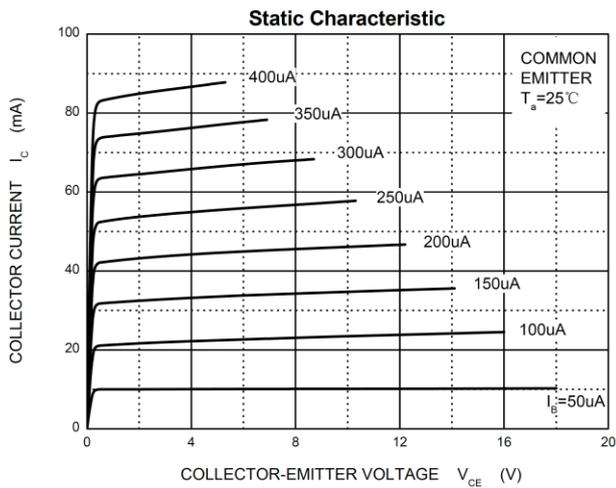
MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

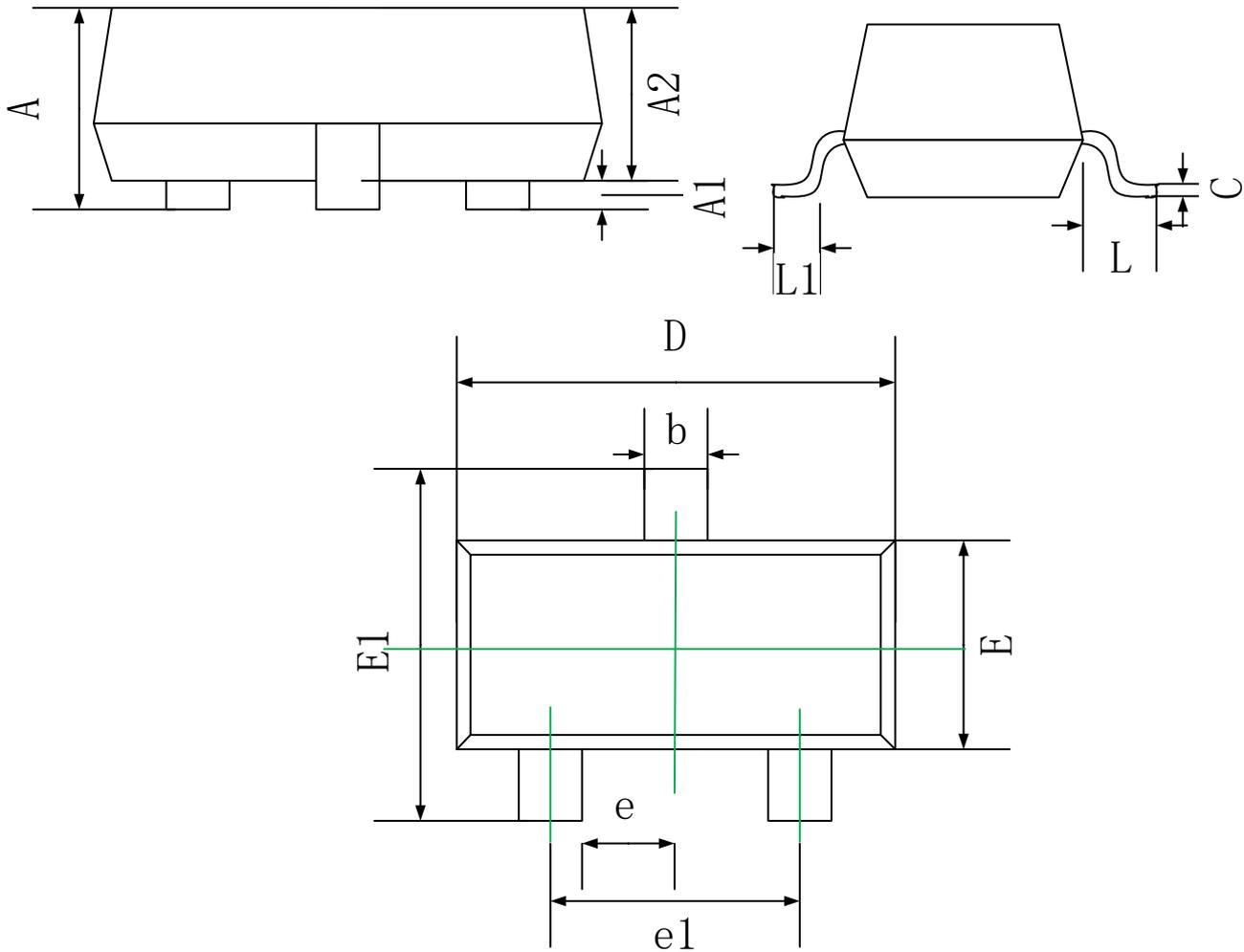
Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CB0}	40	V
Collector-Emitter Voltage	V _{CEO}	25	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current -Continuous	I _c	0.5	A
Power Dissipation	P _d	0.625	W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55~ +150	°C

ELECTRICAL CHARACTERISTICS(T_a=25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	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 =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		100	nA
Collector cut-off current	I _{CEO}	V _{CE} =20V, I _B =0		100	nA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _c =0		100	nA
DC current gain	h _{FE}	V _{CE} =1V, I _c =100mA	200	350	
Collector-emitter saturation voltage	V _{CE(sat)}	I _c =500mA, I _B =50mA		0.6	V
Base-emitter saturation voltage	V _{BE(sat)}	I _c =500mA, I _B =50mA		1.2	V
Transition frequency	f _T	V _{CE} = 6V, I _c =20mA, f=30MHz	150		MHZ

Typical Characteristics



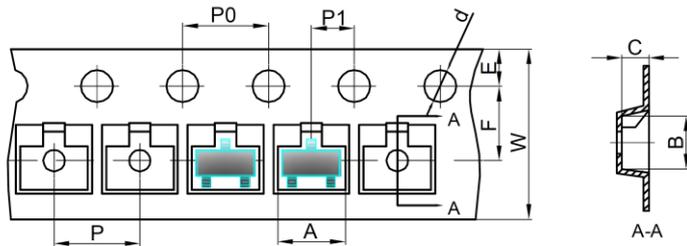
SOT-23 Package Information


Symbol	Dimensions In Millimeters	
	Min.	Max.
A	0.90	1.15
A1	0.00	0.10
A2	0.90	1.05
b	0.30	0.50
c	0.08	0.15
D	2.80	3.00
E	1.20	1.40
E1	2.25	2.55
e	0.95 REF.	
e1	1.80	2.00
L	0.55 REF.	
L1	0.30	0.50

SOT-23 Tape and Reel

SOT-23 Tape and reel

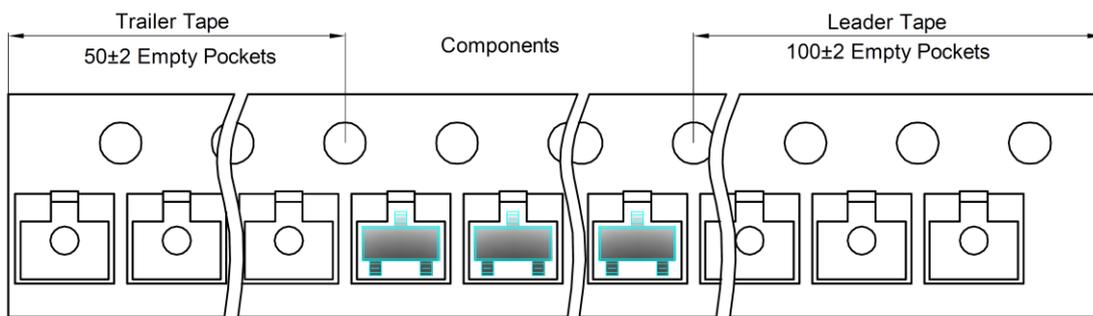
SOT-23 Embossed Carrier Tape



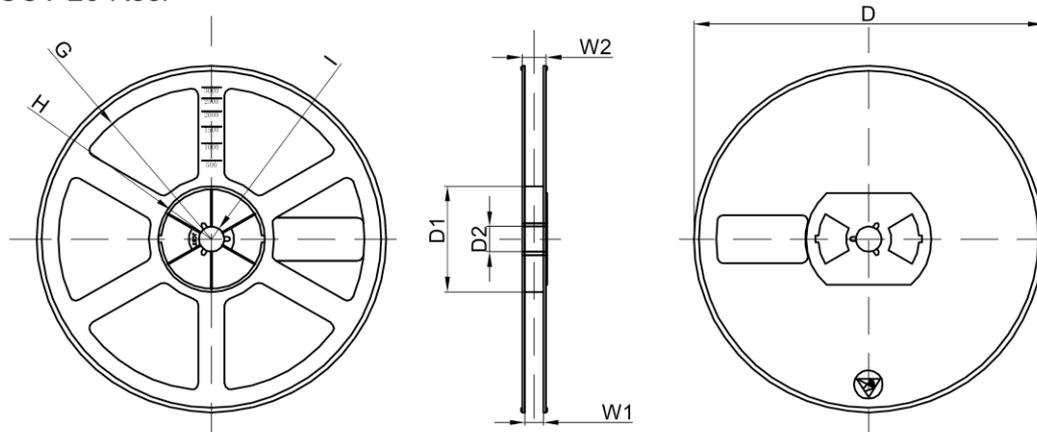
Dimensions are in millimeter

Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-23 Tape Leader and Trailer



SOT-23 Reel



Dimensions are in millimeter

Reel Option	D	D1	D2	G	H	I	W1	W2
7" Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	30,000 pcs	203×203×195	120,000 pcs	438×438×220	