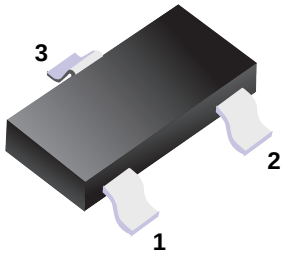
■ Simplified outline(SOT-23)



1.Base
2.Emitter
3.Collector

■ Features

- Collector Current: I_C=1.5A

■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	40	V
Collector-Emitter Voltage	V_{CEO}	25	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current -Continuous	I_C	1.5	A
Collector Dissipation	P_C	0.3	W
Junction Temperature	T_j	150	℃
Storage Temperature	T_{stg}	-55 to 150	℃

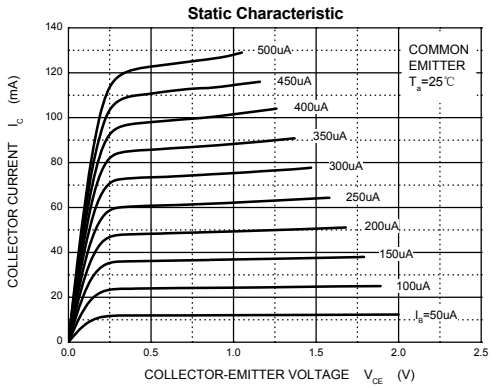
■ Electrical Characteristics Ta = 25℃

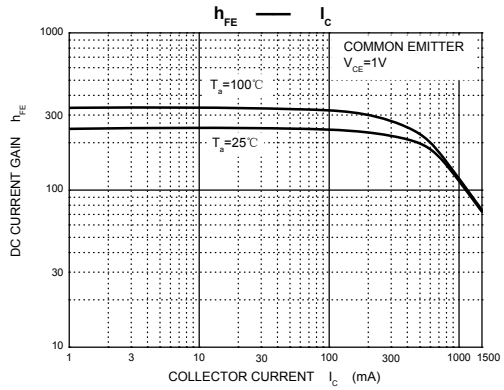
Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V_{CBO}	I_C = 100 uA, I_E = 0	40			V
Collector-emitter breakdown voltage	V_{CEO}	I_C = 1mA , I_B = 0	25			V
Emitter-base Breakdown voltage	V_{EBO}	I_E = 100 uA, I_C = 0	5			V
Collector-base cut-off current	I_{CBO}	V_{CB} = 40 V , I_E = 0			0.1	μA
Collector-emitter cut-off current	I_{CEO}	V_{CE} = 20 V , I_B = 0			1	μA
Emitter-base cut-off current	I_{EBO}	V_{EB} = 5 V , I_C = 0			0.1	μA
DC current gain	h_{FE}	V_{CE} = 1 V , I_C = 100 mA	120		400	
		V_{CE} = 1 V , I_C = 800 mA	40			
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C = 800 mA , I_B = 80 mA			0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	I_C = 800 mA , I_B = 80 mA			1.2	V
Transition frequency	f_T	V_{CE} = 10 V , I_C = 50 mA , f = 30 MHz	100			MHz

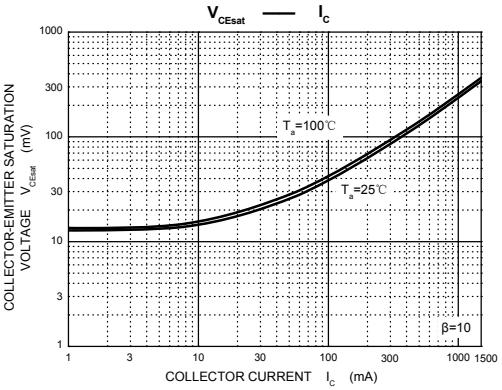
■ $h_{FE(1)}$ Classification

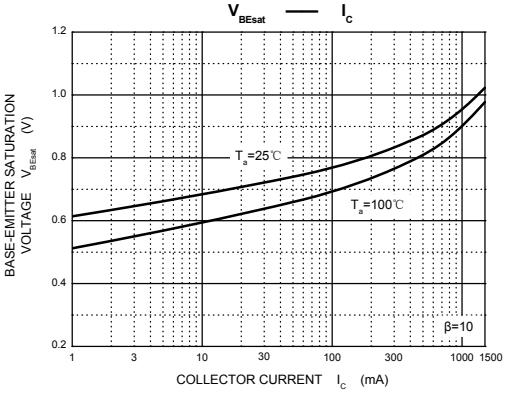
Type	SS8050	SS8050-L	SS8050-H	SS8050-J
Range	200-350	120-200	144-202	300-400
Marking	Y1			

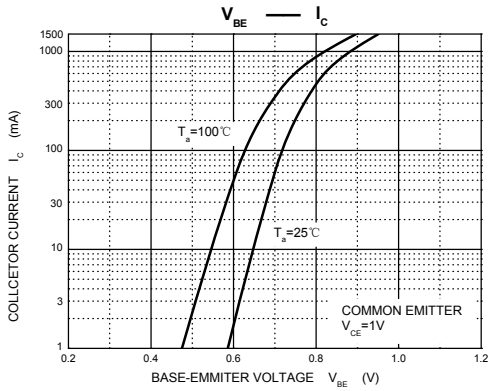
■ Typical Characteristics

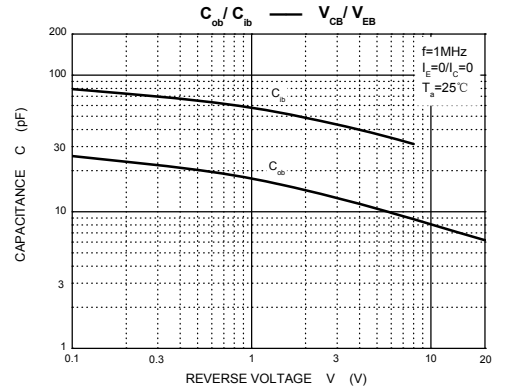


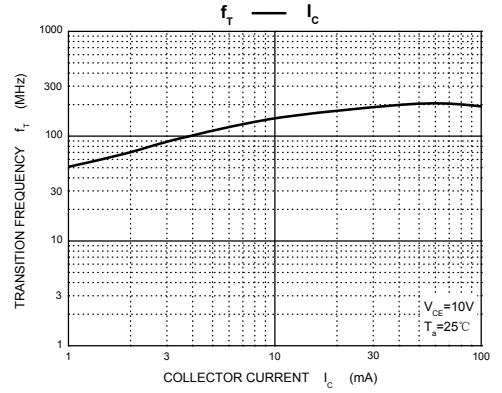


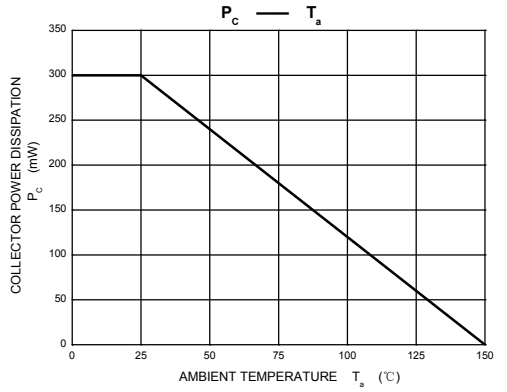




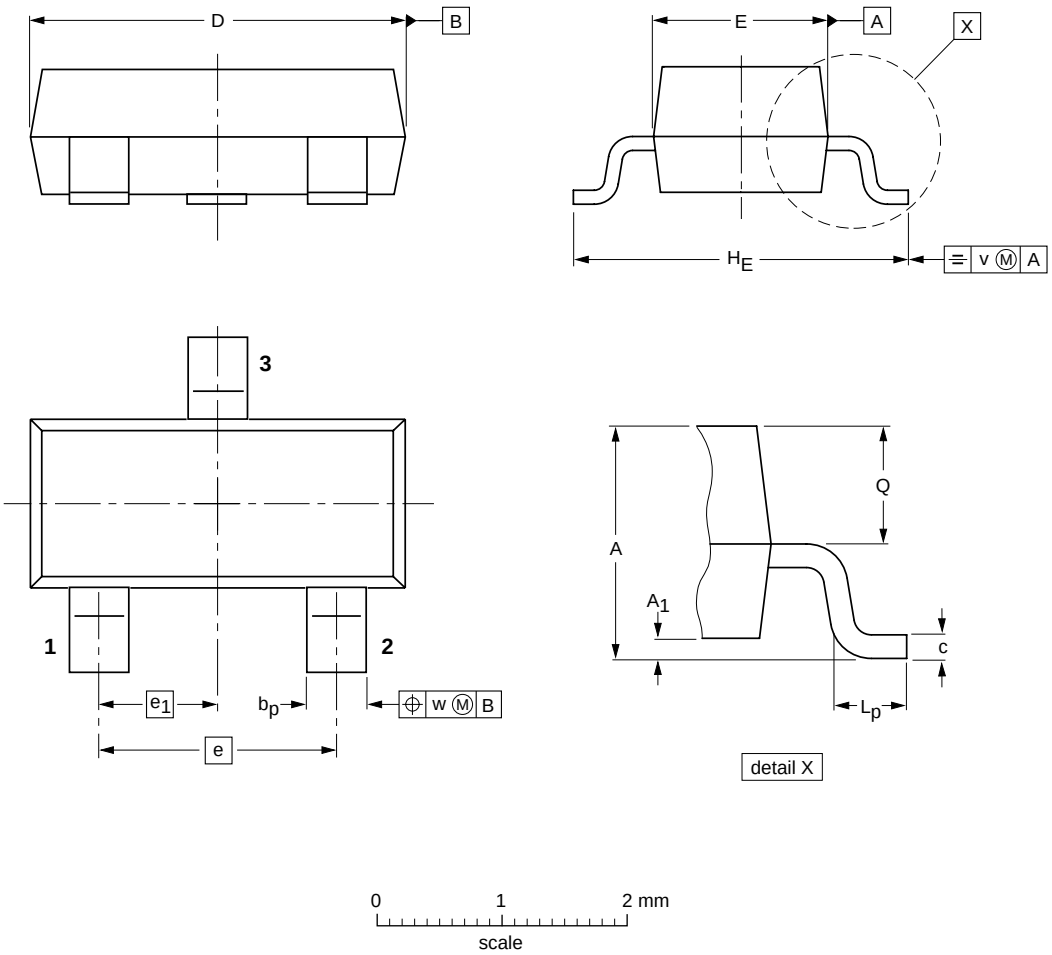








■ SOT-23



DIMENSIONS (mm are the original dimensions)

UNIT	A	A_1 max.	b_p	c	D	E	e	e_1	H_E	L_p	Q	v	w
mm	1.1 0.9	0.1	0.48 0.38	0.15 0.09	3.0 2.8	1.4 1.2	1.9	0.95	2.5 2.1	0.45 0.15	0.55 0.45	0.2	0.1