

SS8550WG

PNP TRANSISTOR

FEATURES

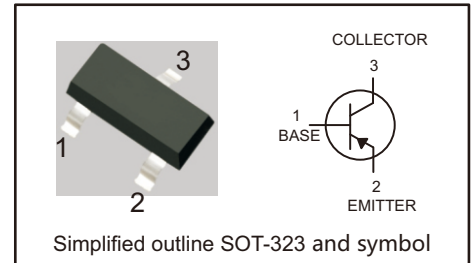
- High Collector Current
- Complementary to SS8050WG

CLASSIFICATION OF h_{FE}

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

PINNING

PIN	DESCRIPTION
1	BASE
2	EMITTER
3	COLLECTOR



MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

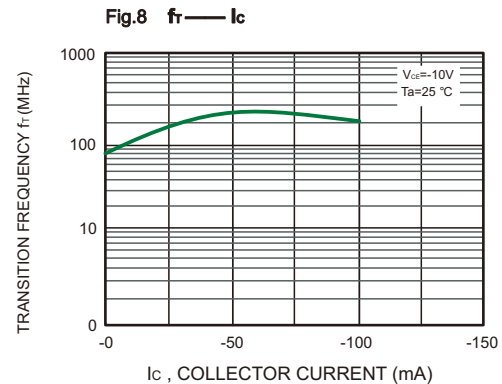
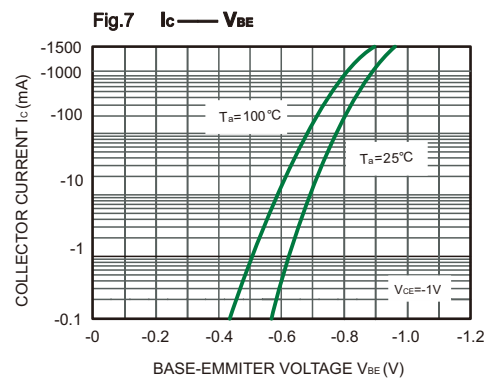
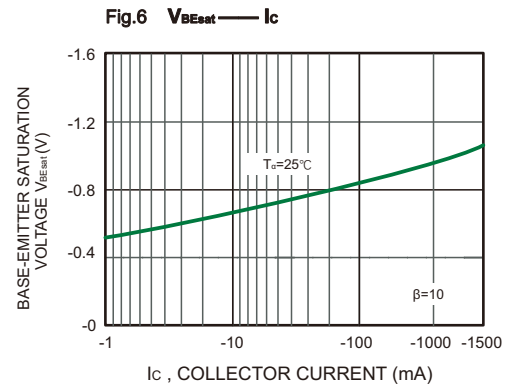
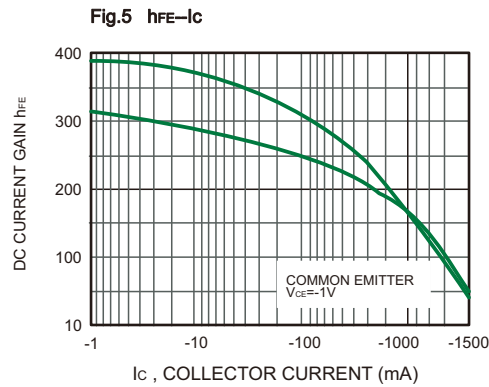
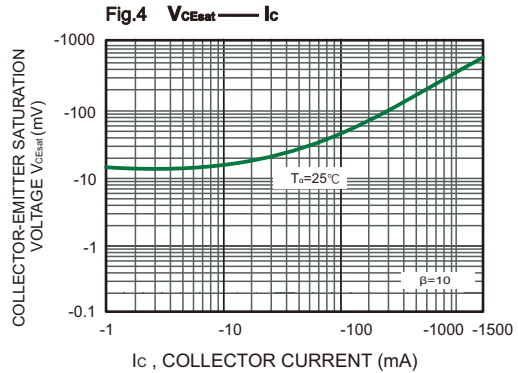
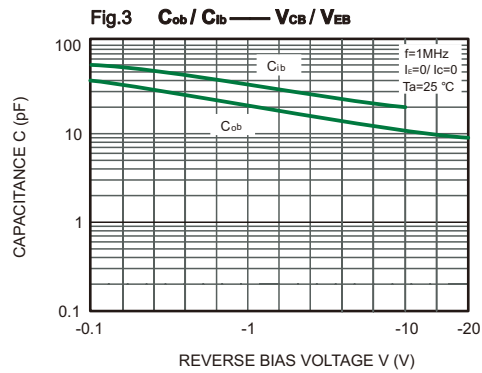
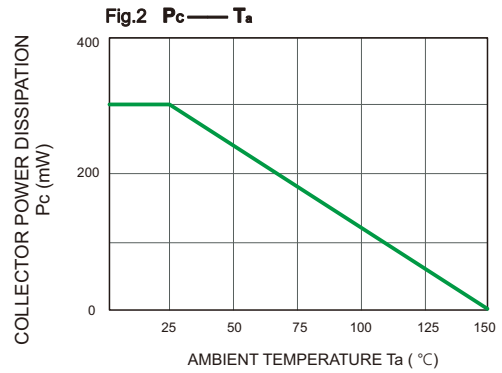
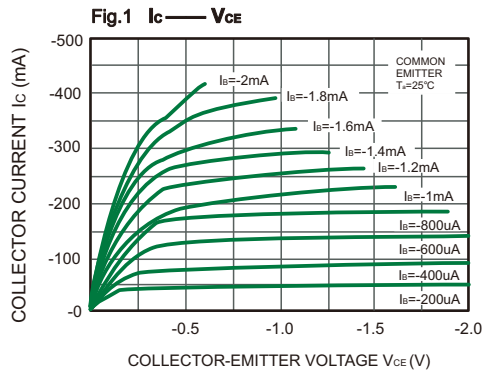
Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	-40	V
Collector-Emitter Voltage	V_{CEO}	-25	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current — Continuous	I_c	-1.5	A
Collector Dissipation	P_C	300	mW
Thermal Resistance From Junction To Ambient	R_{thJA}	625	$^{\circ}\text{C}/\text{W}$
Operation Junction and Storage Temperature Range	T_J, T_{stg}	-55~+150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}\text{C}$ unless otherwise noted.)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_c = -100\mu\text{A}, I_E = 0$	-40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_c = -0.1\text{ mA}, I_B = 0$	-25			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -100\mu\text{A}, I_c = 0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB} = -40\text{V}, I_E = 0$			-0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE} = -20\text{V}, I_B = 0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5\text{V}, I_c = 0$			-0.1	μA
DC current gain	h_{FE1}	$V_{CE} = -1\text{V}, I_c = -100\text{mA}$	120		400	
	h_{FE2}	$V_{CE} = -1\text{V}, I_c = -800\text{mA}$	40			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_c = -800\text{mA}, I_B = -80\text{mA}$			-0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_c = -800\text{mA}, I_B = -80\text{mA}$			-1.2	V
Base-emitter voltage	V_{BE}	$V_{BE} = -1\text{V}, I_c = -10\text{mA}$			-1	V
Transition frequency	f_T	$V_{CE} = -10\text{V}, I_c = -50\text{mA}, f = 30\text{MHz}$	100			MHz
Collector output capacitance	C_{ob}	$V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$			20	

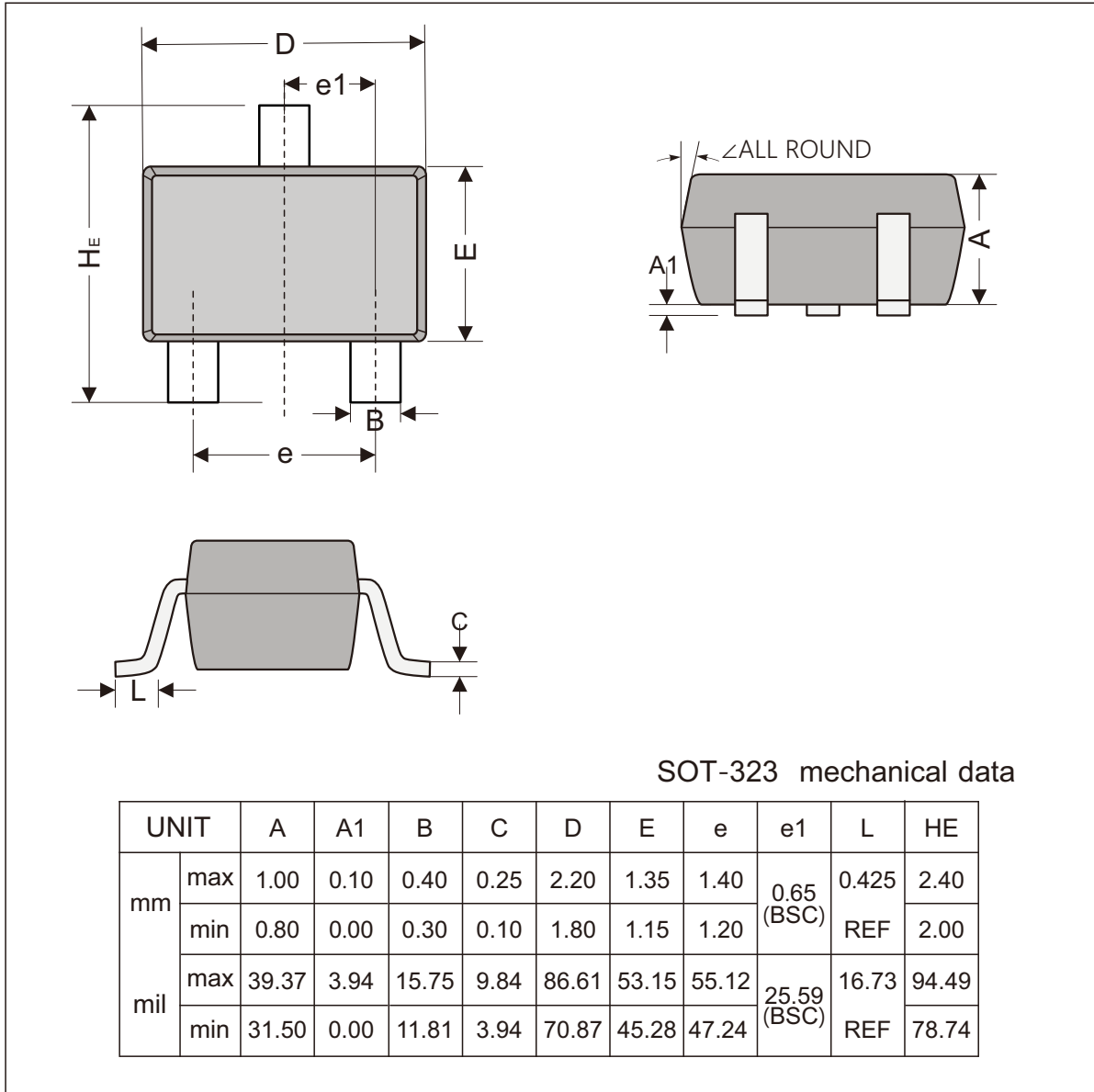


TYPICAL CHARACTERISTICS

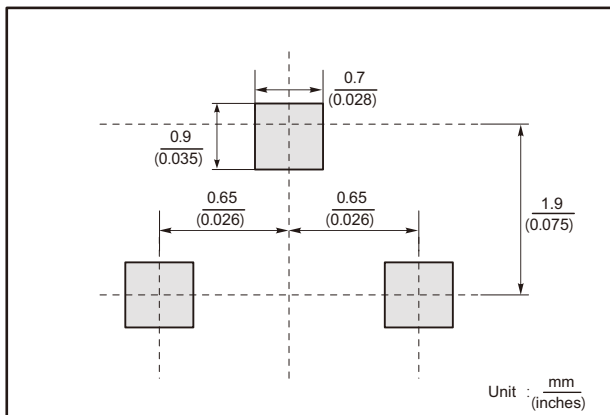




SOT-323 Package Outline Dimensions



The recommended mounting pad size



Marking

Type number	Marking code
SS8550WGL	Y2
SS8550WGH	
SS8550WGJ	



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