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SOT-323 PNP Silicon PNP transistor in a SOT-323 Plastic Package.

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, MMBT5551W

High voltage, complementary Pair with MMBT5551W.

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General purpose high voltage amplifier.

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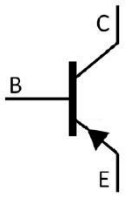

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PIN1 Emitter PIN 2 Base PIN 3 Collector

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h_{FE} Classifications Symbol	A	B	C
h_{FE} Range	50 150	100 300	200 400
Marking	H2LA	H2LB	H2LC

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Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-180	V
Collector to Emitter Voltage	V_{CEO}	-160	V
Emitter to Base Voltage	V_{EBO}	-6.0	V
Collector Current - Continuous	I_C	-600	mA
Base Current - Continuous	I_B	-300	mA
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

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Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	V_{CB}=-180V I_E=0			-0.1	μA
Emitter to Base Current	I_{EBO}	V_{EB}=-6.0V I_C=0			-0.1	μA
DC Current Gain	$h_{FE(1)}$	V_{CE}=-5.0V I_C=-10mA	50	200	400	
	$h_{FE(2)}$	V_{CE}=-5.0V I_C=-50mA	20	70		
	$h_{FE(3)}$	V_{CE}=-5.0V I_C=-1.0mA	40	180		
Collector to Emitter Saturation Voltage	$V_{CE(sat)\ (1)}$	I_C=-10mA I_B=-1.0mA		-0.12	-0.4	V
	$V_{CE(sat)\ (2)}$	I_C=-50mA I_B=-5.0mA		-0.5	-0.8	V
Base to Emitter Saturation Voltage	$V_{BE(sat)\ (1)}$	I_C=-10mA I_B=-1.0mA		-0.75	-1.0	V
	$V_{BE(sat)\ (2)}$	I_C=-50mA I_B=-5.0mA		-0.8	-1.0	V
Base to Emitter Voltage	V_{BE}	V_{CE}=-5.0V I_C=-10mA		-0.7	-0.75	V
Transition Frequency	f_T	V_{CE}=-10V I_E=-10mA	50	80		MHz
Collector output capacitance	C_{ob}	V_{CB}=-10V I_E=0 f=10MHz		2.5	5.0	pF
Turn-On Time	t_{on}	I_C=-100mA $-I_{B1}=I_{B2}$=-10mA		0.1		μs
Turn-Off Time	t_{off}			0.2		μs
Storage Time	t_{stg}			0.1		μs

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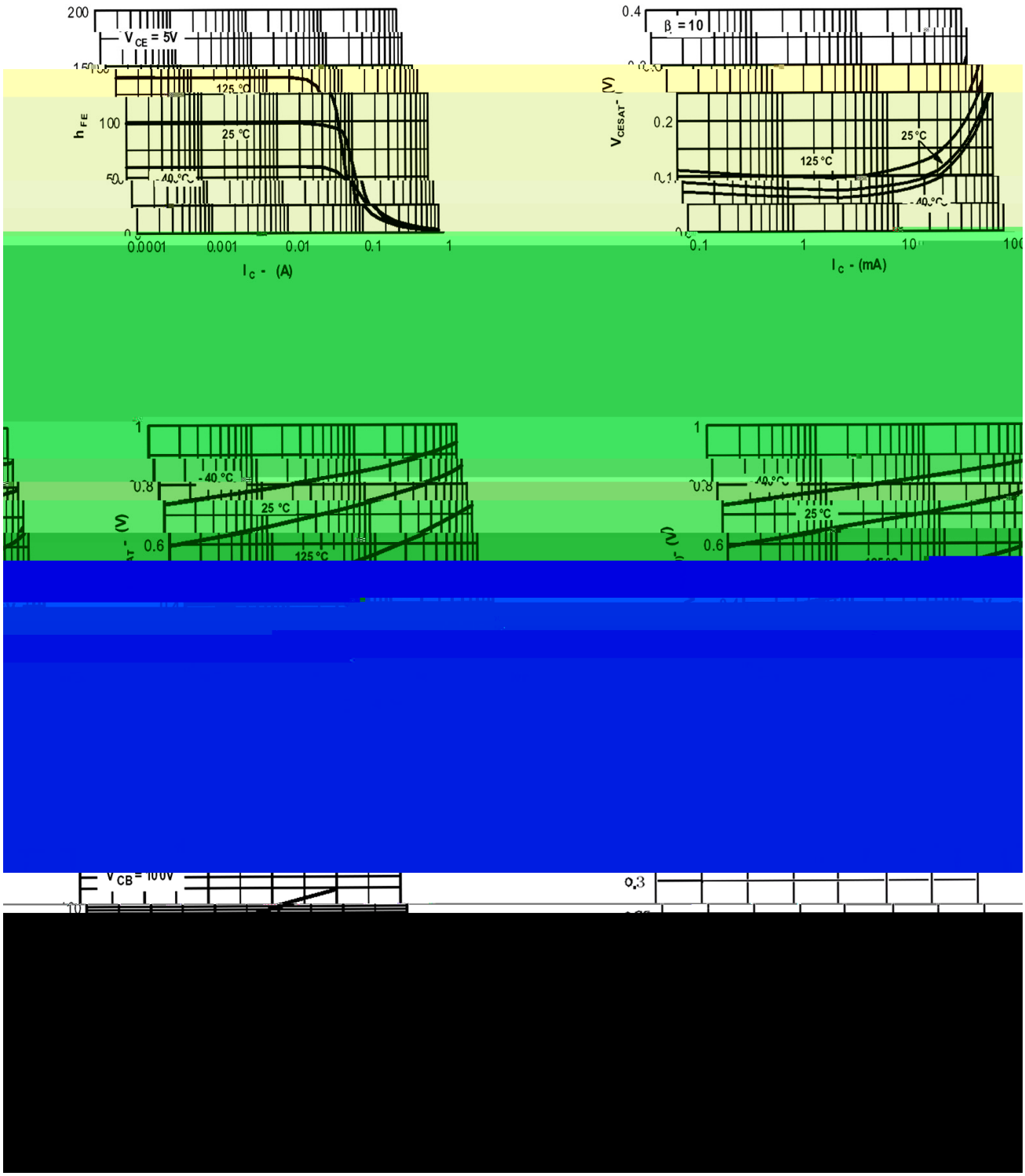
200
V CE = 5V
125 °C
25 °C
- 40 °C
h FE
100
50
0.0001
0.001
0.01
0.1
1
I C - (A)
0.4
β = 10
0.2
0.1
V CESAT - (V)
25 °C
125 °C
- 40 °C
0.1
1
10
I C - (mA)
1
0.8
0.6
- 40 °C
25 °C
125 °C
V CB = 100V
0.3

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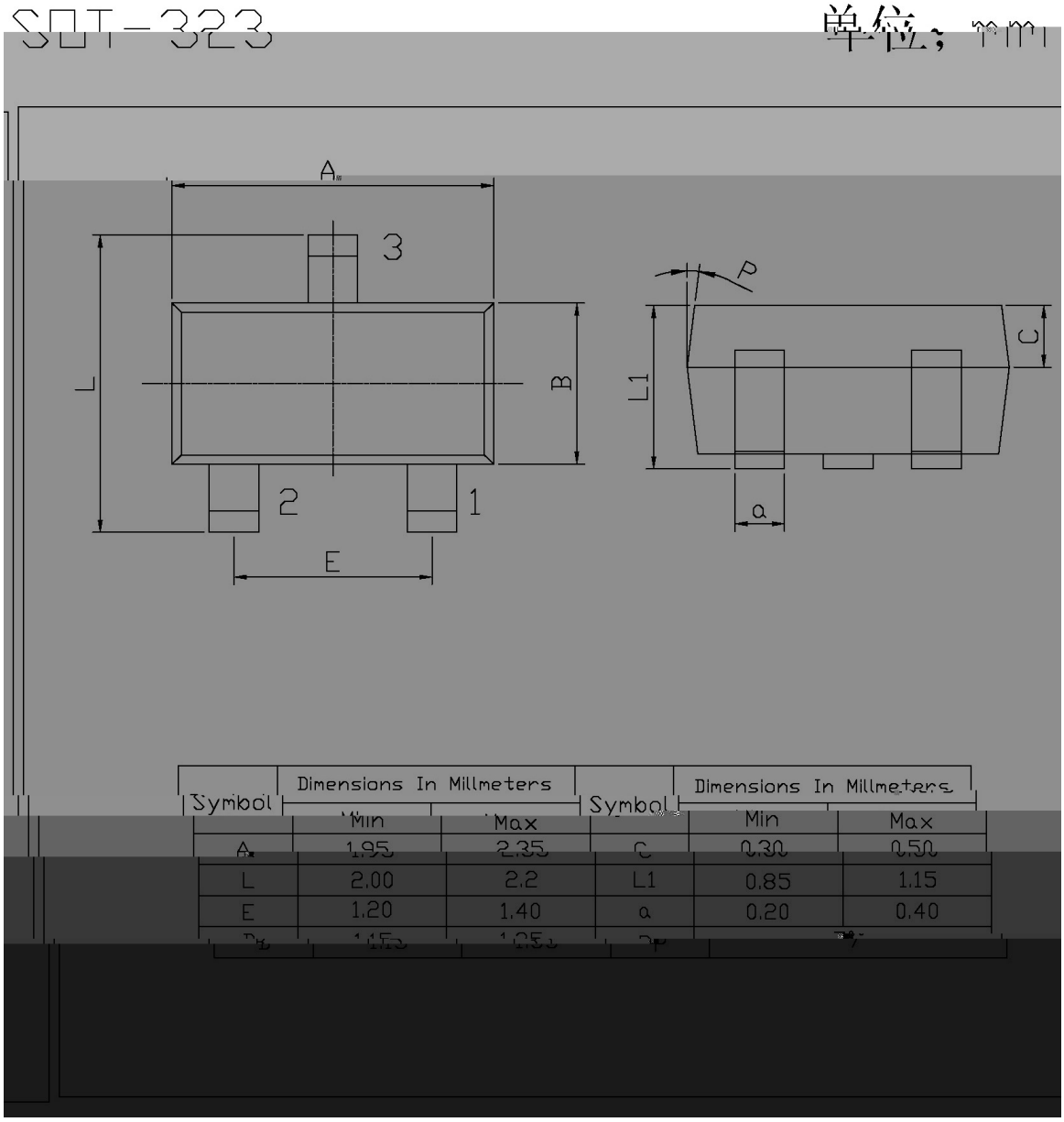
SOT-323 单位：mm



Symbol	Dimensions In Millmeters		Symbol	Dimensions In Millmeters	
	Min	Max		Min	Max
A	1.95	2.35	C	0.30	0.50
L	2.00	2.2	L1	0.85	1.15
E	1.20	1.40	a	0.20	0.40
b	1.15	1.25	θ		

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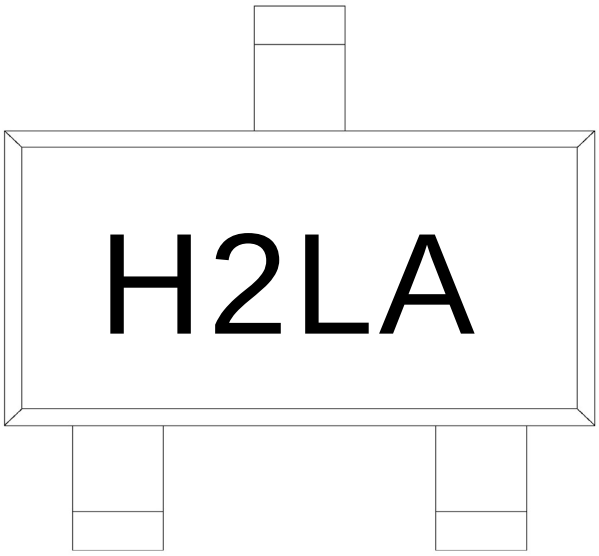

H

2L

A h_{FE}

Note:

H: Company Code.

2L: Product Type.

A h_{FE} Classifications Symbol

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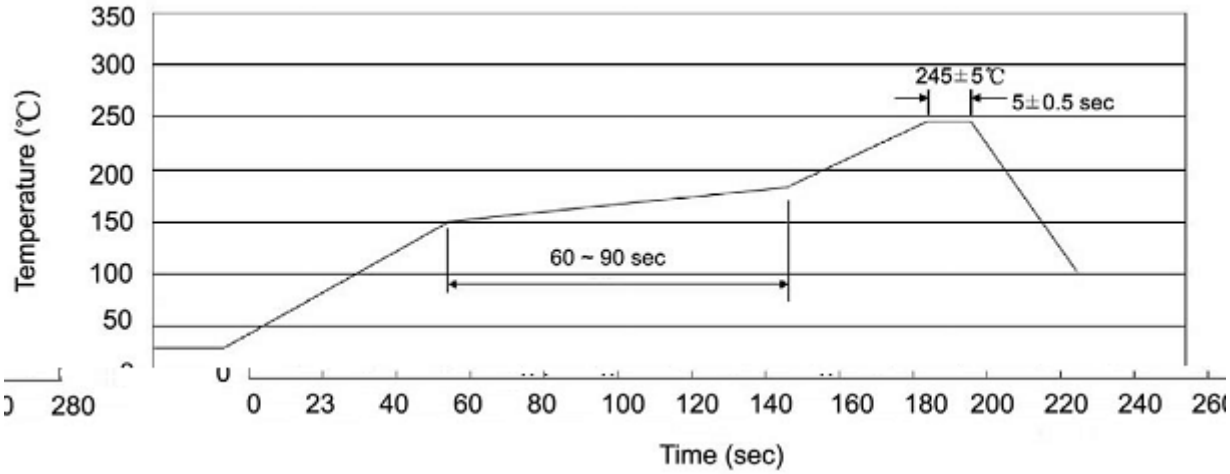

Note:

1 25 150 60