

5 é / Descriptions

9 5 : .> // x 6 4 6 ! - } â 'ož Silicon PNP transistor in a SOT-89 Plastic Package.

α a / Features

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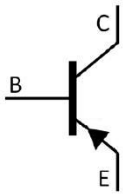
High voltage.

Đ ÷ / Applications

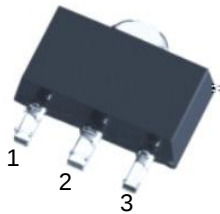
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High voltage control circuit.

Ã W] Ô · / Equivalent Circuit



• Ũ - æ / Pinning



PIN1 y Base

PIN 2 y Collector

PIN 3 y Emitter

, M V / Marking

Marking	H4D *
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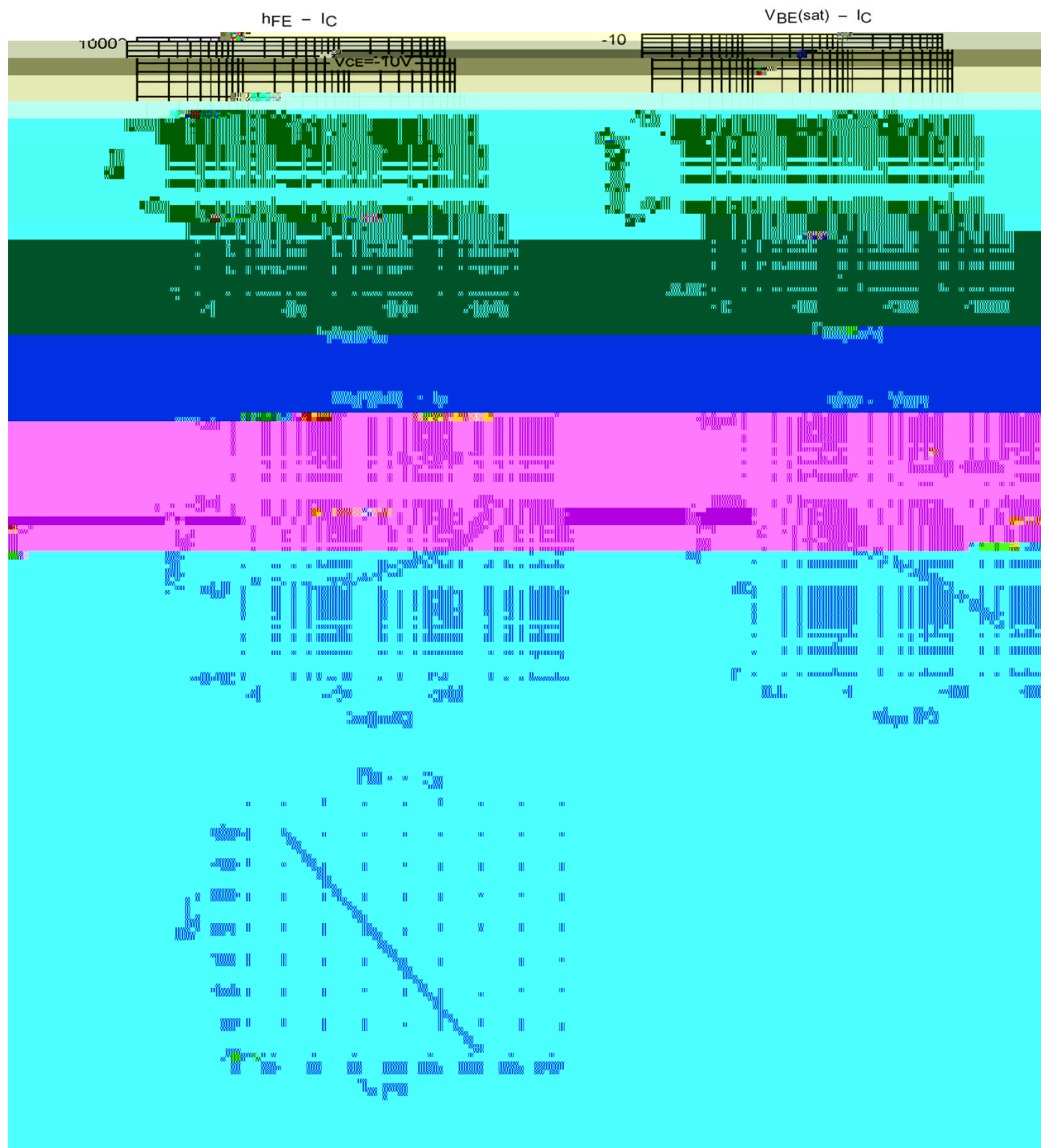
1. Absolute Maximum Ratings(Ta=25℃ ;)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V _{CBO}	-400	V
Collector to Emitter Voltage	V _{CEO}	-400	V
Emitter to Base Voltage	V _{EBO}	-5.0	V
Collector Current - Continuous	I _C	-300	mA
Collector Power Dissipation	P _C	500	mW
Junction Temperature	T _j	150	
Storage Temperature Range	T _{stg}	-55 ~ 150	

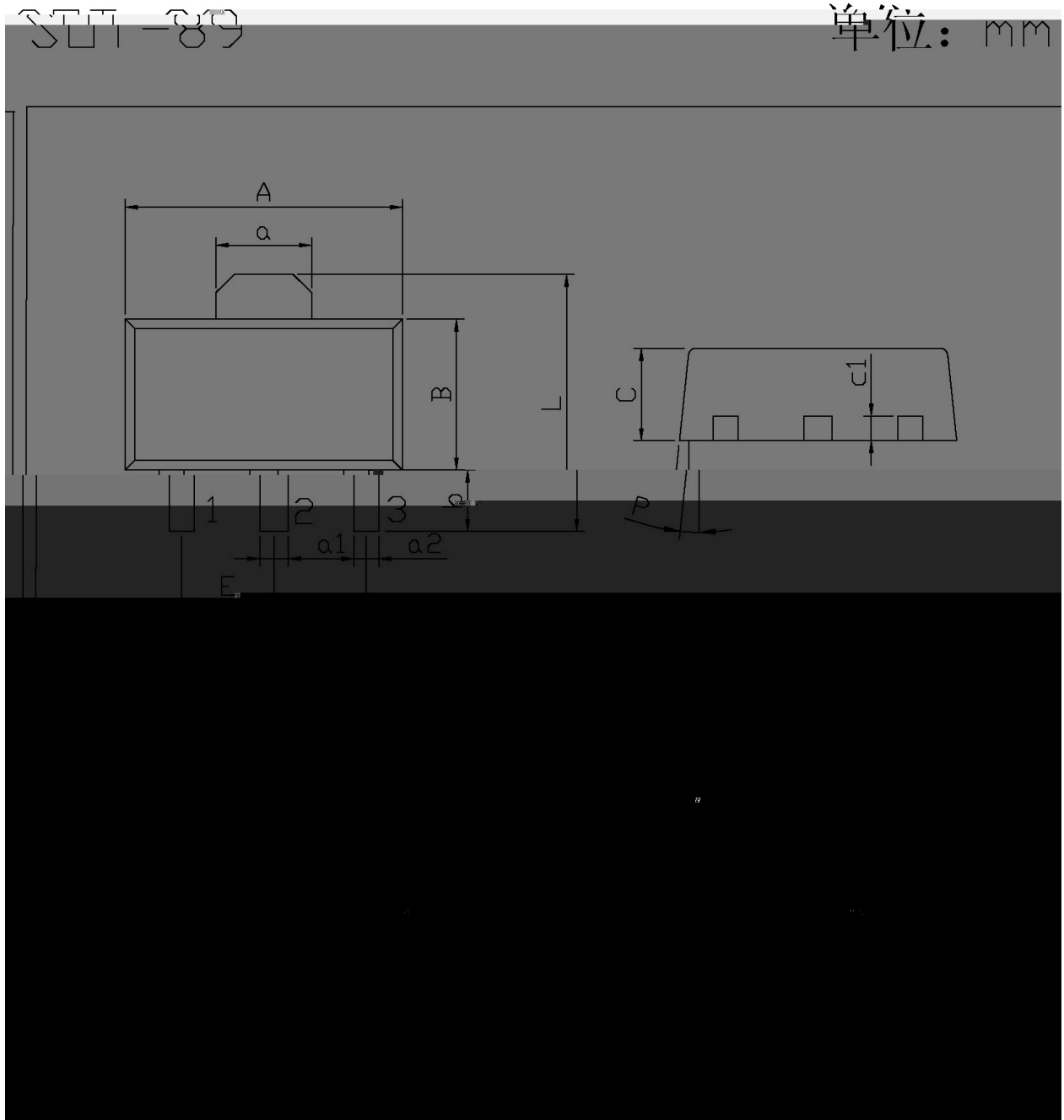
2. Electrical Characteristics(Ta=25℃ ;)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V _{CBO}	I _C =-100 A I _E =0	-400			V
Collector to Emitter Breakdown Voltage	V _{CEO}	I _C =-1.0mA I _B =0	-400			V
Emitter to Base Breakdown Voltage	V _{EBO}	I _E =-100 A I _C =0	-5.0			V
Collector Cut-Off Current	I _{CBO}	V _{CB} =-300V I _E =0			-0.1	A
Emitter Cut-Off Current	I _{CES}	V _{CE} =-400V V _{BE} =0			-1	A
Emitter Base Cut-Off Current	I _{EBO}	V _{EB} =-4.0V I _C =0			-0.1	A
DC Current Gain	h _{FE(1)}	V _{CE} =-10V I _C =-10mA	80		300	
	h _{FE(2)}	V _{CE} =-10V I _C =-1.0mA	70			
	h _{FE(3)}	V _{CE} =-10V I _C =-100mA	40			
Collector to Emitter Saturation Voltage	V _{CE(sat) (1)}	I _C =-10mA I _B =-1.0mA			-0.2	V
	V _{CE(sat) (2)}	I _C =-50mA I _B =-5.0mA			-0.3	V
Emitter to Base Saturation Voltage	V _{BE(sat)}	I _C =-10mA I _B =-1.0mA			-0.75	V
Transition Frequency	f _T	V _{CE} =-5.0V I _C =-10mA f=30MHz	50			MHz

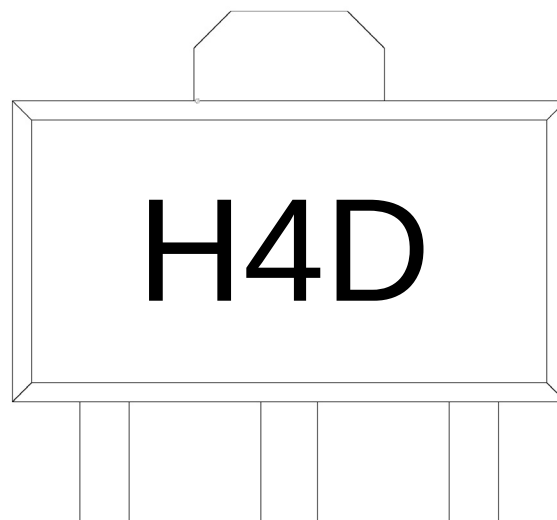
Electrical Characteristic Curve



Ø □ =) □ / Package Dimensions



, M y f / Marking Instructions



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H y , [W A

4D y ° Z W A

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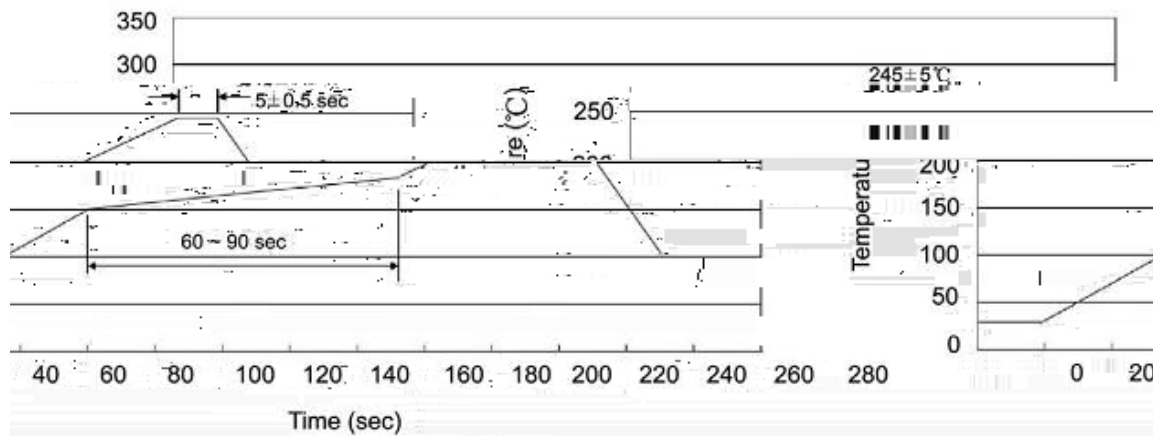
Note:

H: Company Code.

4D: Product Type.

** : Lot No. Code, code change with Lot No.

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^ačy

- 1o• Ä ½ “† 150 ½180 - k ž • 60 ½90sec;
- 2o• Q > “† 245 r5 - k ž • 4 Ò 5 r0.5sec;
- 3o•D N ò i Ò 0 , † 2 ½10 - /sec.

Note:

- 1.Preheating:150~180 - , Time:60~90sec.
- 2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.
3. Cooling Speed: 2~10 - /sec.

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