

📄 / Descriptions

SOT-89 PNP Silicon PNP transistor in a SOT-89 Plastic Package.

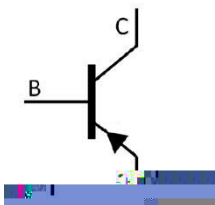
🔑 / Features

MMBT5551T
High voltage, complementary Pair with MMBT5551T.

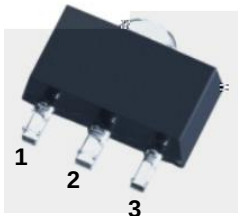
🔧 / Applications

General purpose high voltage amplifier.

🔌 ⚡ / Equivalent Circuit



📌 / Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

🏷️ / Marking

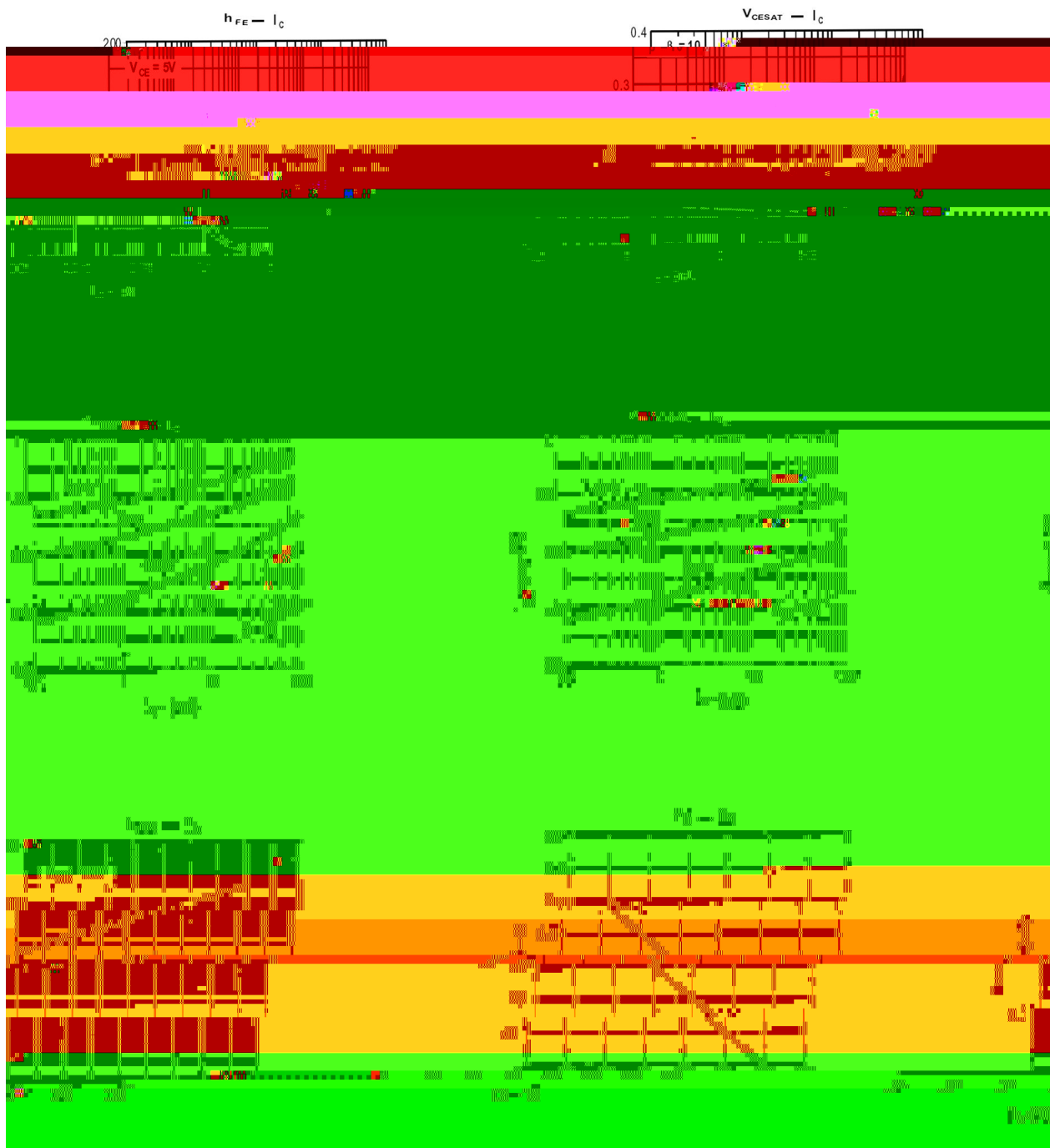
h_{FE} Classifications Symbol	A	B	C
h_{FE} Range	50 150	100 300	200 400
Marking	H2LA * 	H2LB * 	H2LC *

电气特性

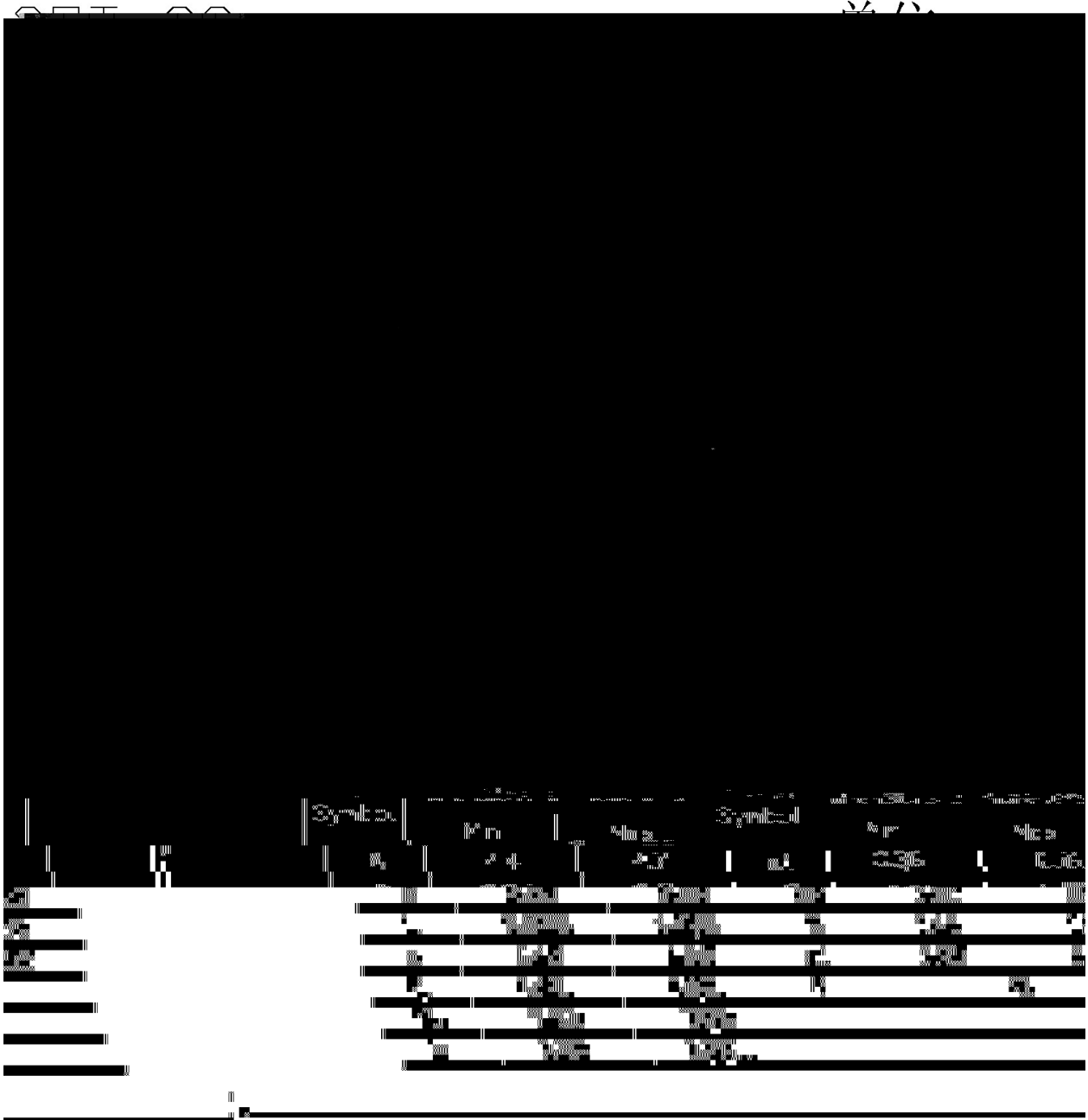
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-180	V
Collector to Emitter Voltage	V_{CEO}	-160	V
Emitter to Base Voltage	V_{EBO}	-6.0	V
Collector Current - Continuous	I_C	-600	mA
Collector Base - Continuous	I_B	-300	mA
Collector Power Dissipation	P_C	500	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-180V$ $I_E=0$			-0.1	A
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB}=-6.0V$ $I_C=0$			-0.1	A
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
Emitter to Base 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
Emitter to Base 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		s
Turn-off Time	t_{off}			0.2		s
Storage Time	t_{stg}			0.1		s

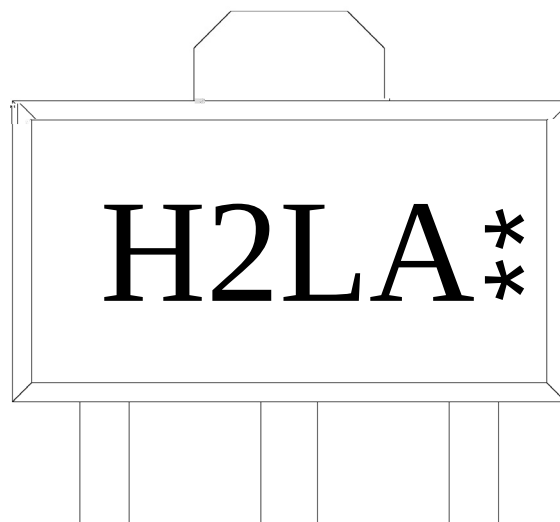
三极管特性 / Electrical Characteristic Curve



⌕ É Ø Ì f / Package Dimensions



4. 1. 1 / Marking Instructions



H

2L

A: h_{FE}

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Note:

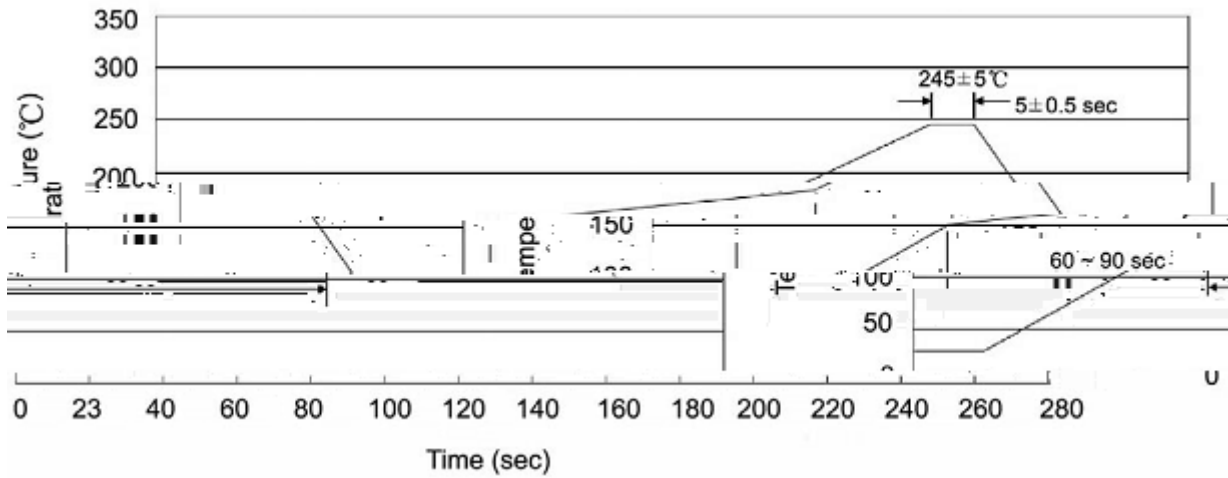
H: Company Code.

2L: Product Type.

A: h_{FE} Classifications Symbol

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

热冲击试验 / Whp shudwxuh Suriloh i ru LU Uhior z Vroghulqj+Se0l uhh,



Note:

- | | | | | | |
|---|-------|-----|-----------|--------|---|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 245±5 | | 5±0.5sec; | | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

热阻焊 / Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

封装规格 / Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOT-89	1,000	7	7,000	8	56,000	7 ×12	180×120×180	385×257×392

注意事项 / Notices