/ Descriptions

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

/ Features

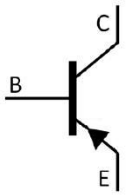
, , , MMBTA42T

High voltage, low saturation voltage, low collector output capacitance, complementary pair with MMBTA42T.

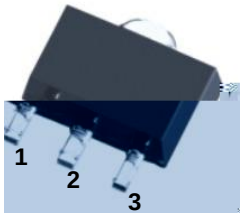
/ Applications

High voltage control circuit.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

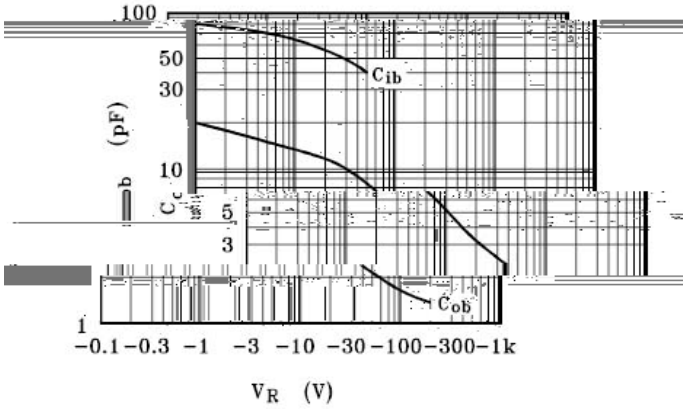
/ Marking

Marking	H2D

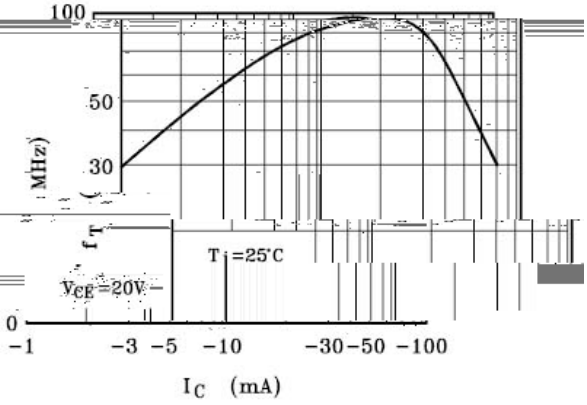
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-300	V
Collector to Emitter Voltage	V_{CEO}	-300	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-500	mA
Collector Power Dissipation	P_C	500	mW

/ Electrical Characteristic Curve

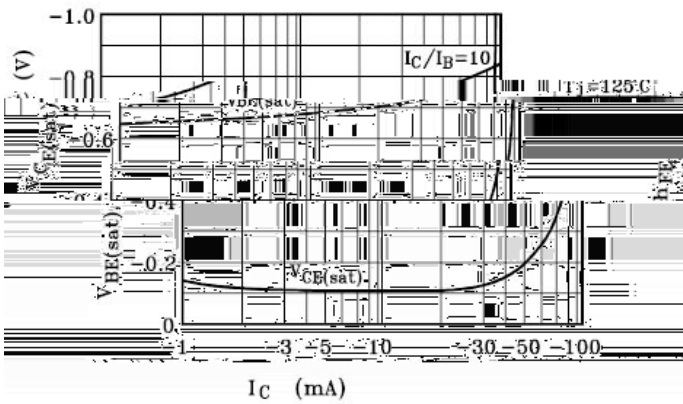
C_{ob} – V_R



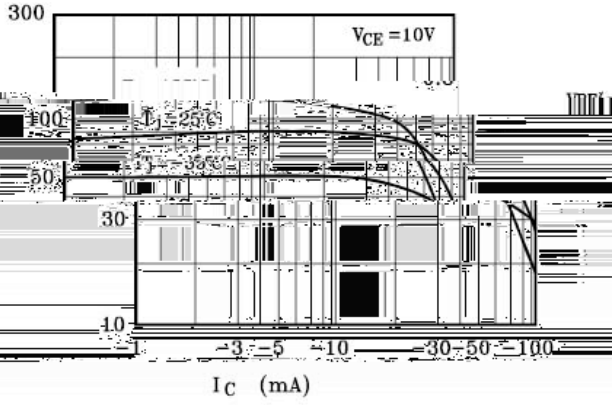
f_T – I_C



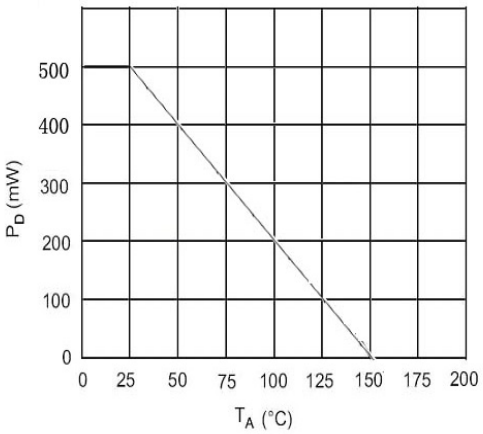
$V_{BE(sat)}$, $V_{CE(sat)}$ – I_C



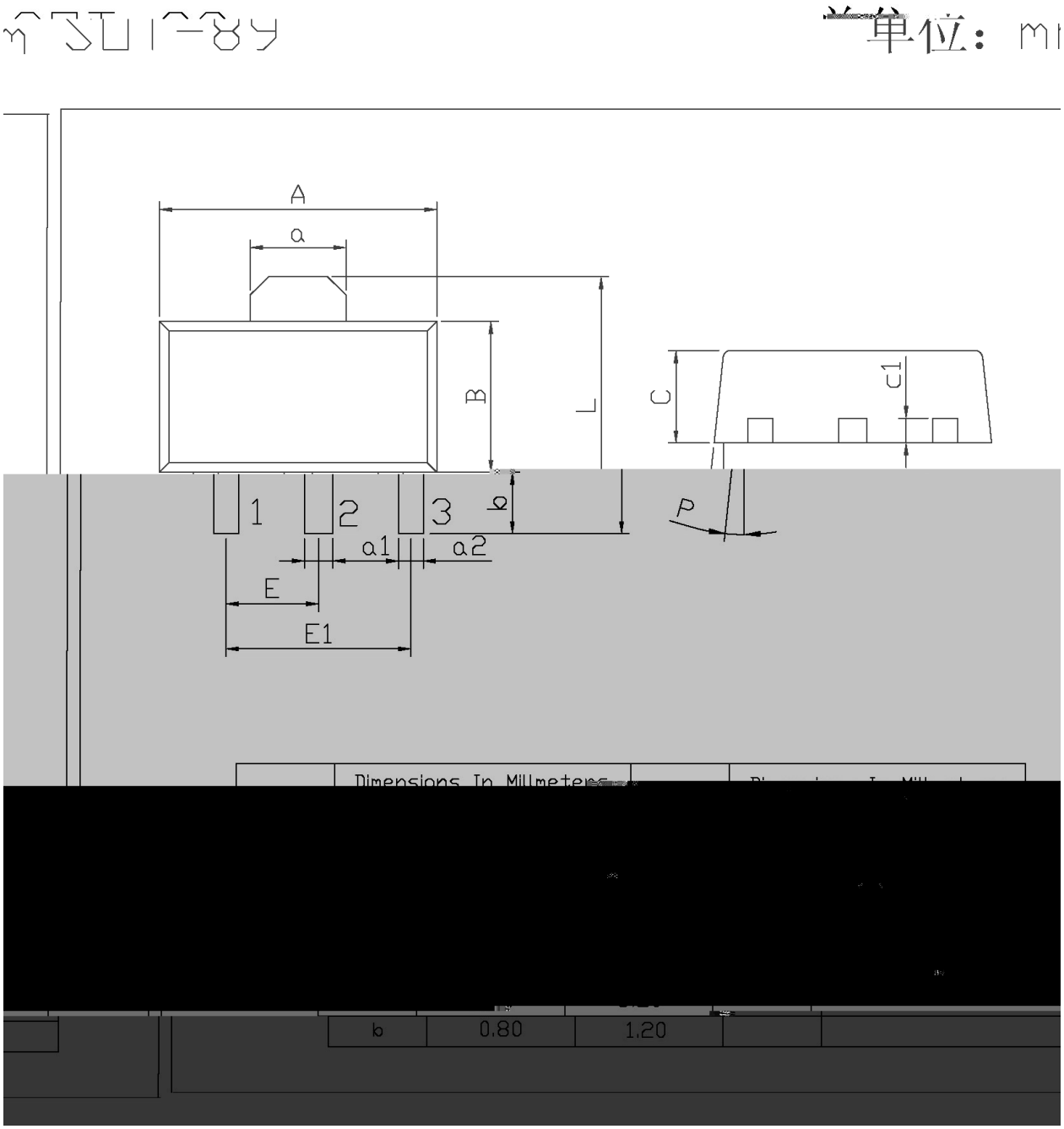
h_{FE} – I_C



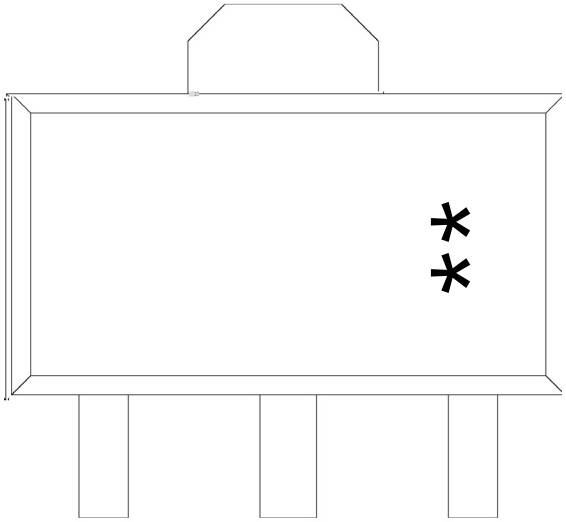
P_D – T_A



/ Package Dimensions



/ Marking Instructions



H

2D

**

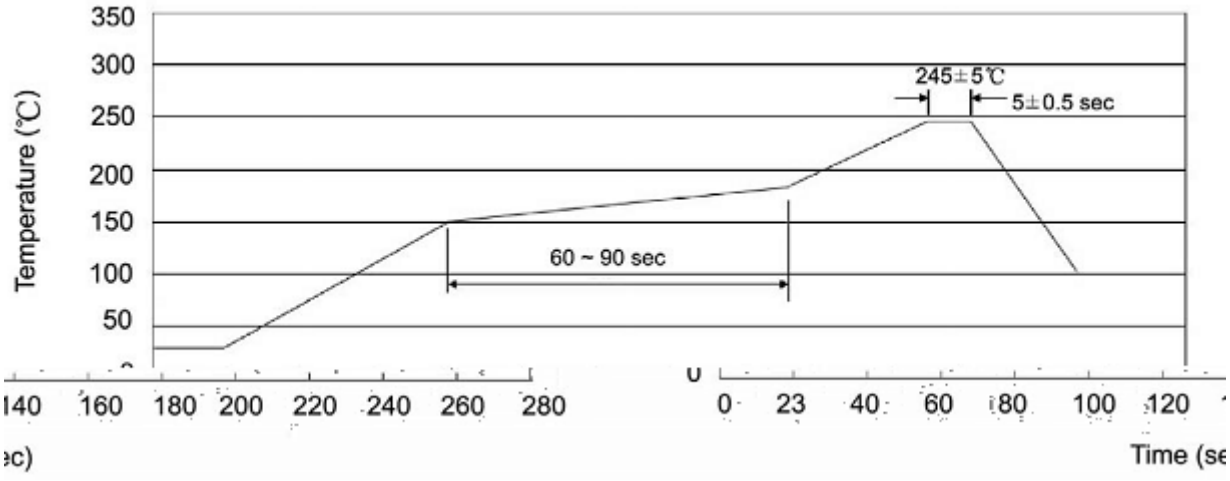
Note:

H: Company Code.

2D: Product Type.

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

( ) /



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.

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.