

/ Descriptions

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

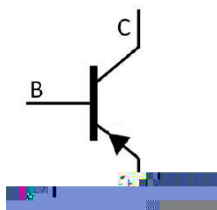
/ Features

h_{FE} 2SD999
Low V_{CE(sat)}, excellent h_{FE} linearity, complements the 2SD999.

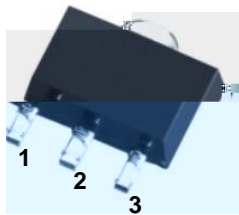
/ Applications

Audio frequency power amplifier applications.

/ Equivalent Circuit



/ Pinning



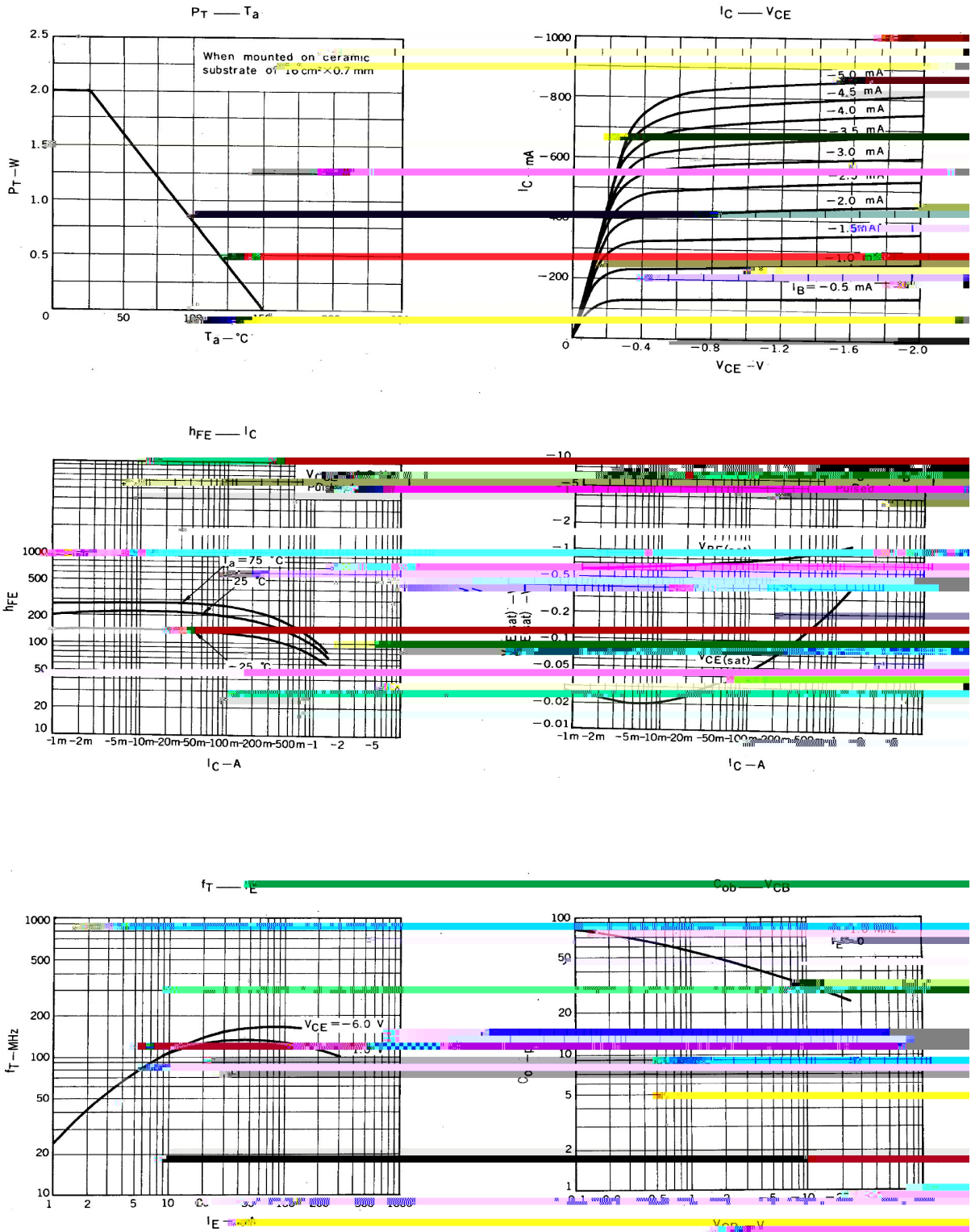
PIN1 Base PIN 2 Collector PIN 3 Emitter

/ Marking

h _{FE} Classifications Symbol	M	L	K
h _{FE} Range	90 180	135 270	200 400
Marking	HDM **	HDL **	HDK **

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-30	V

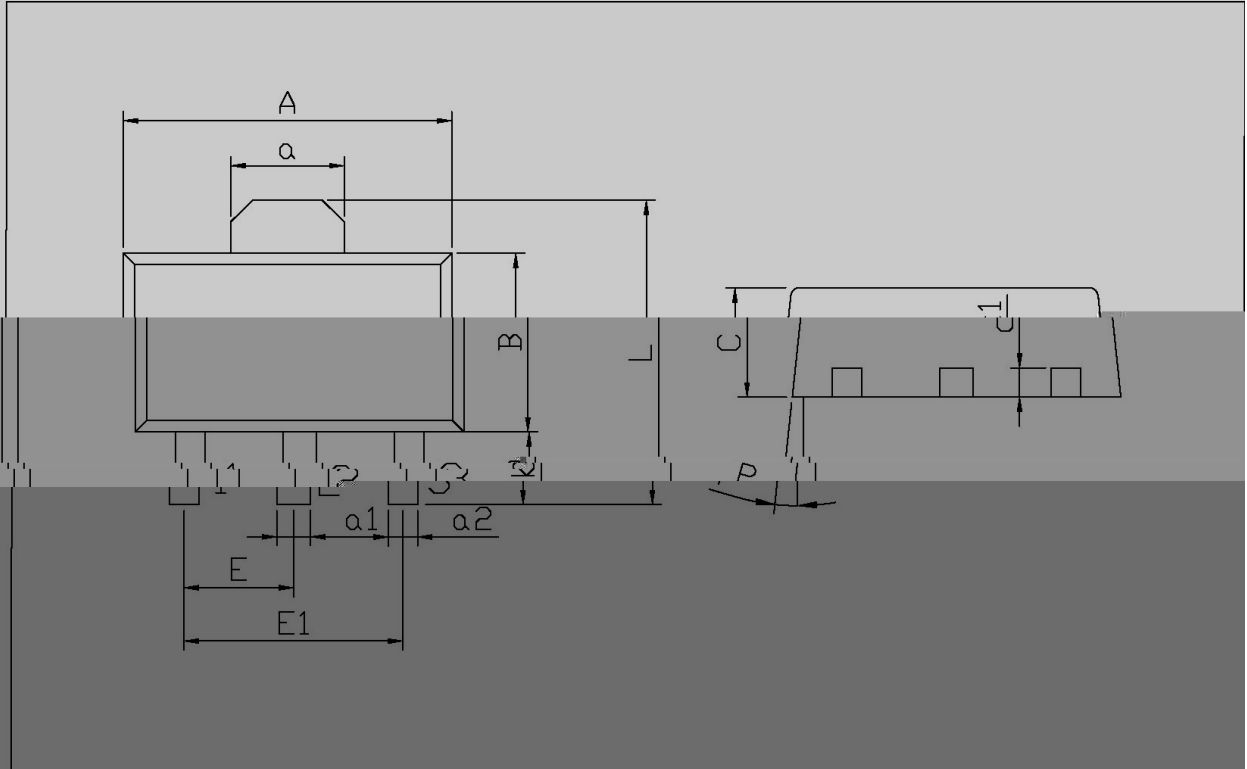
/ Electrical Characteristic Curve



/ Package Dimensions



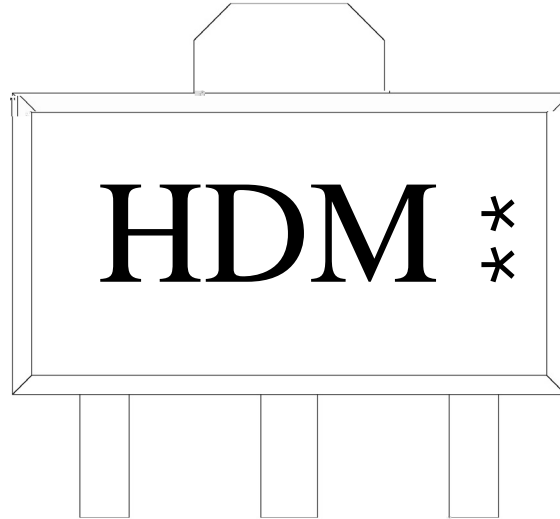
单位: mm



Dimensions In Millimeters

Symbol	Dimensions In Millimeters	Symbol	Dimensions In Millimeters
A	10.0	L	10.0
a	3.0	B	3.0
B	3.0	C	3.0
L	10.0	P	2.5
C	3.0	E	3.0
P	2.5	E1	3.0
E	3.0	a1	3.0
E1	3.0	a2	3.0
a1	3.0	C1	3.0
a2	3.0		
C1	3.0		

/ Marking Instructions



H

D

M h_{FE}

**

Note:

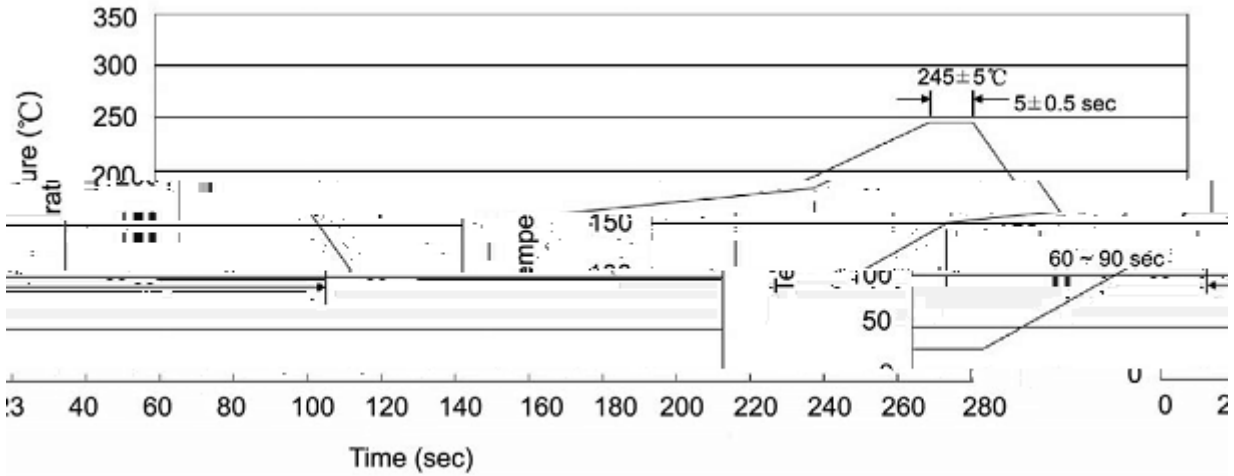
H: Company Code.

D: Product Type.

M h_{FE} Classifications Symbol

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

() / Resistance to Soldering Heat Test Conditions



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.

/ REEL

Package Type	Units	Dimension	(unit mm ³)
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