

/ Descriptions

TO-126F PNP Silicon PNP transistor in a TO-126F Plastic Package.

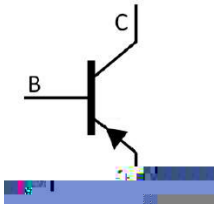
/ Features

3
Output stage of 3 watts audio amplifier, voltage regulator, DC-DC converter and relay driver.

/ Applications

$V_{CE(sat)}$, h_{FE} .
Low saturation voltage, excellent h_{FE} linearity and high h_{FE} .

/ Equivalent Circuit



/ Pinning



PIN1 Emitter PIN 2 Collector PIN 3 Base

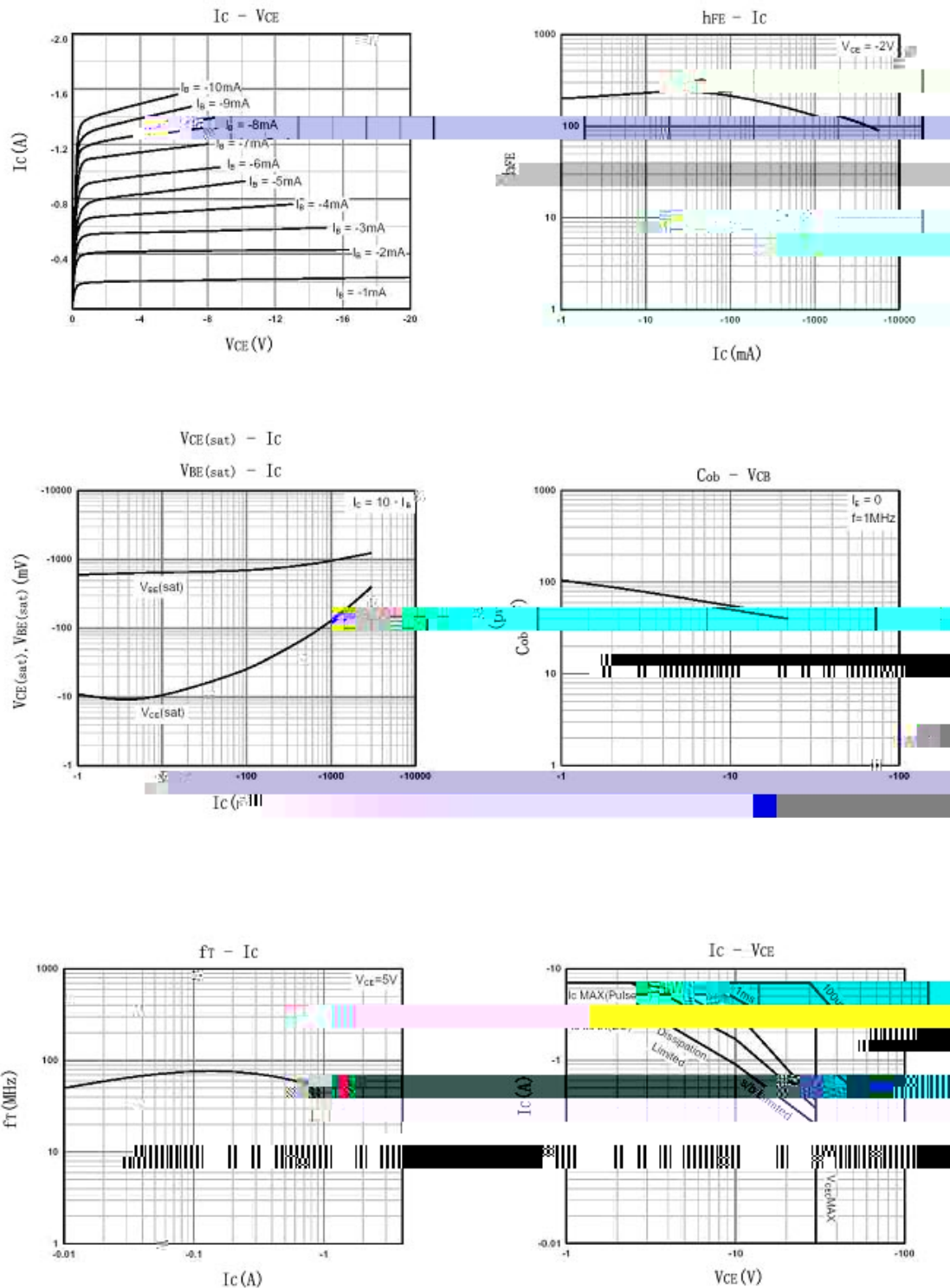
/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	R	O	Y	G
h_{FE} Range	60 120	100 200	160 320	200 400

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-40	V
Collector to Emitter Voltage	V_{CEO}	-30	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current – Continuous	I_C	-3.0	A
Base Current – Continuous	I_B	-0.6	A
Collector Power Dissipation	P_C	1.0	W
Collector Power Dissipation	$P_C(T_C=25^\circ\text{C})$	10	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

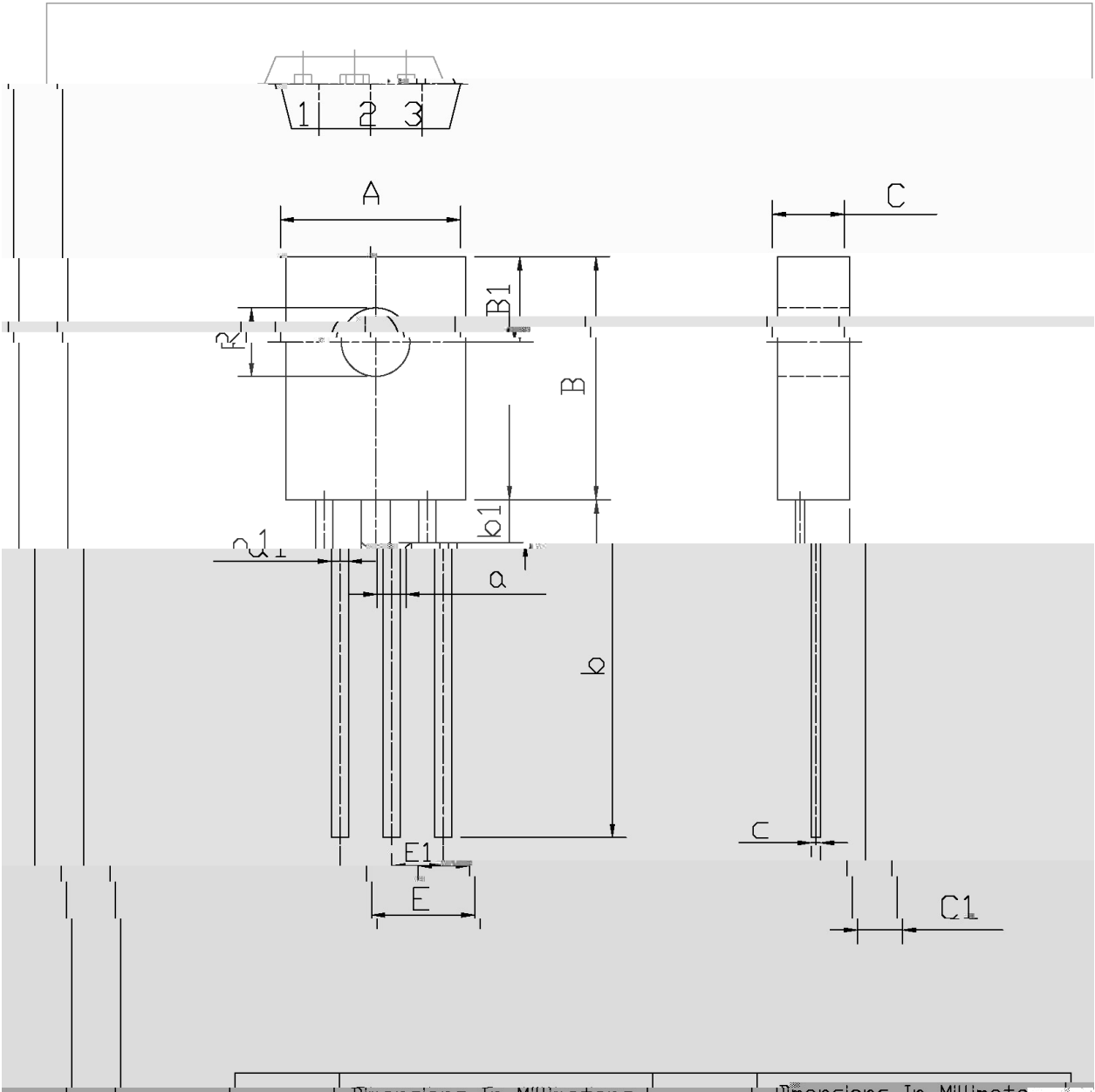
Parameter	Symbol	Test Conditions	Min	Typ		Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-30V \quad I_E=0$			-1.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-3.0V \quad I_C=0$			-1.0	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-2.0V \quad I_C=-1.0A$	60	160	400	
	$h_{FE(2)}$	$V_{CE}=-2.0V \quad I_C=-20mA$	30	220		
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-2.0A \quad I_B=-0.2A$		-0.3	-0.5	V

/ Electrical Characteristic Curve



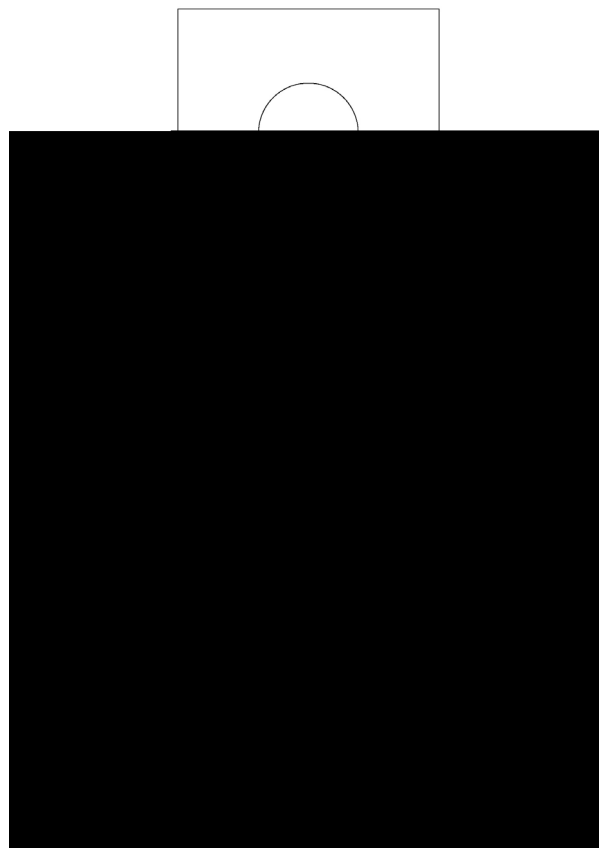
/ Package Dimensions

TU-126F 单位: mm



Symbol	Min	Max	Symbol	Min	Max
A	7.8	8.2	A1	0.65	0.7
B	10.8	11.2	E	4.4	4.8

/ Marking Instructions



BR

B772

O

h_{FE}

Note:

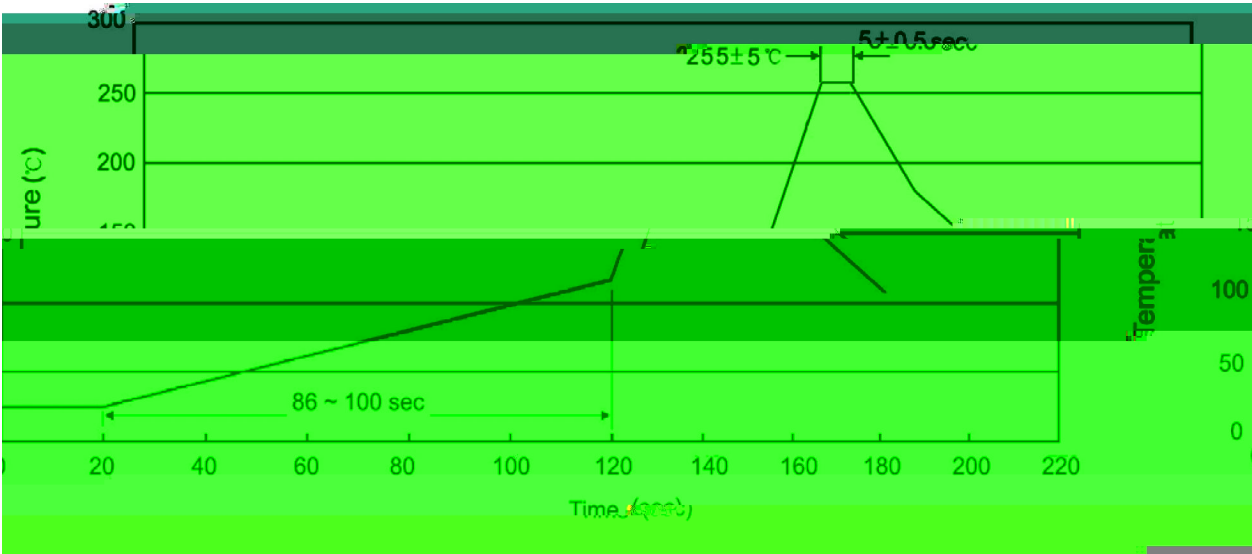
BR: Company Code

B772: Product Type.

O: h_{FE} Classifications Symbol

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

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

- 1

25 150

60 90sec;
- 2

255±5

5±0.5sec;
- 3

2 10

/sec.
- 1.Preheating:25~150

, Time:60~90sec.
- 2.Peak Temp.:255±5

, Duration:5±0.5sec.
3. Cooling Speed: 2~10

/sec.

/ Resistance to Soldering Heat Test Conditions

270±5

10±1 sec.

Temp.:270±5

Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type	Units					Dimension (unit mm ³)		
	Units/Tube	Tubes/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Tube	Inner Box	Outer Box
TO-126/F	500	6	3,000	5	15,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type	Units	Dimension	(unit mm ³)
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