

/ Descriptions

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

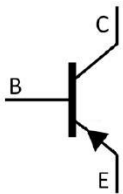
/ Features

Low saturation voltage, excellent h_{FE} linearity and high h_{FE} .

/ Applications

Power amplifier and switching applications.

/ Equivalent Circuit



/ Pinning



PIN1 Emitter PIN 2 Collector PIN 3 Base

/ h_{FE} Classifications & Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-50	V
Collector to Emitter Voltage	V_{CEO}	-50	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-3.0	A
Peak Collector Current – Continuous	I_{CM}	-7.0	A
Base Current - Continuous	I_B	-0.6	A
Collector Power Dissipation	$P_C (T_C=25)$	10	W
Collector Power Dissipation	P_C	1.0	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

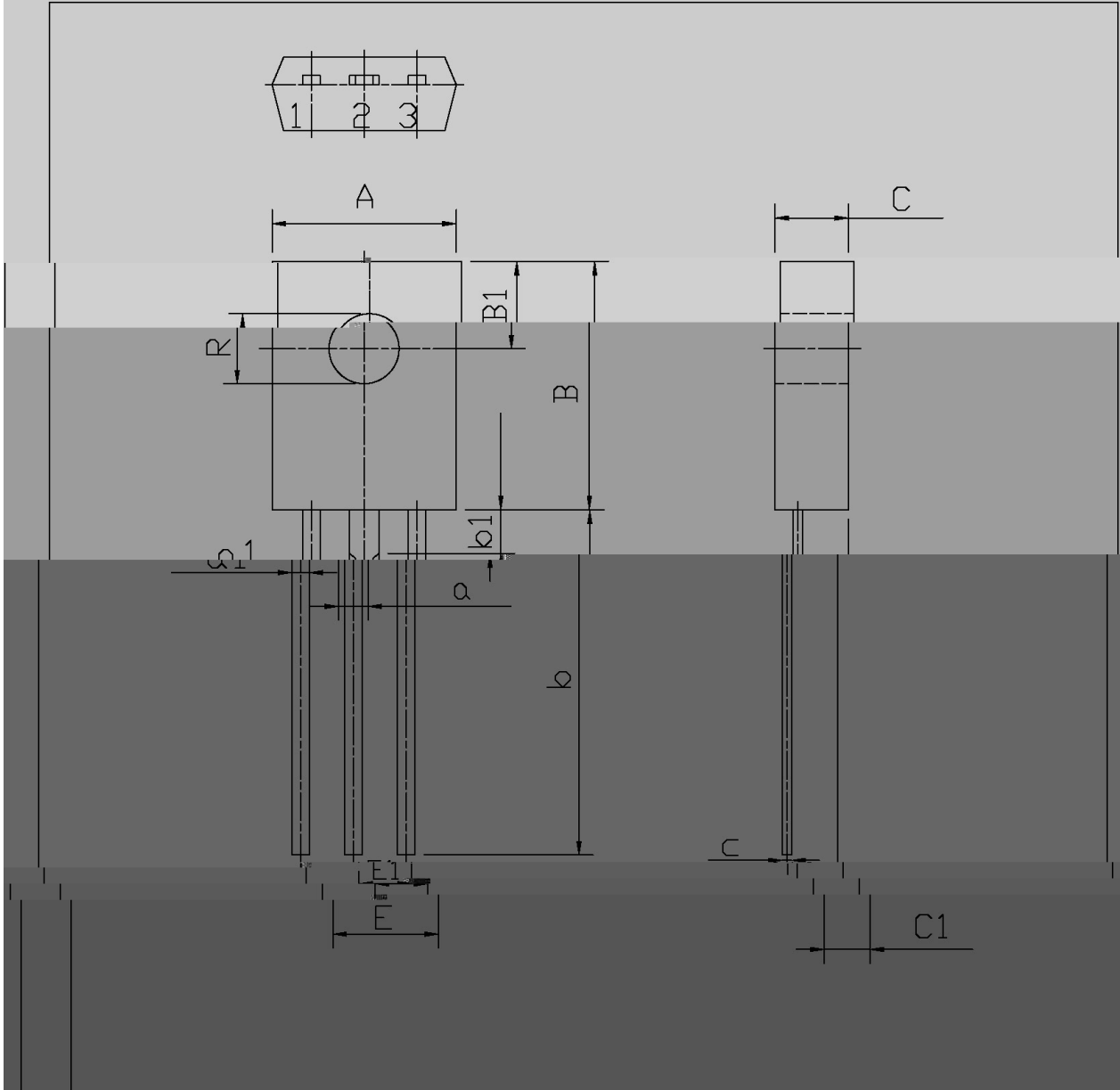
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=-100 A \quad I_E=0$	-50			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=-5mA \quad I_B=0$	-50			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=-100 A \quad I_C=0$	-5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-50V \quad I_E=0$			-1.0	A
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-3.0V \quad I_C=0$			-1.0	A
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-2.0V \quad I_C=-1.0A$	100		400	
	$h_{FE(2)}$	$V_{CE}=-2.0V \quad I_C=-20mA$	100			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-2.0A \quad I_B=-200mA$			-0.5	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-2.0A \quad I_B=-200mA$			-2.0	V
Transition Frequency	f_T	$V_{CE}=-5.0V \quad I_C=-100mA$		80		MHz
Reverse Transfer Capacitance	C_{Ob}	$V_{CB}=-10V \quad I_E=0$ $f_T=1.0MHz$		45		pF

/ Package Dimensions

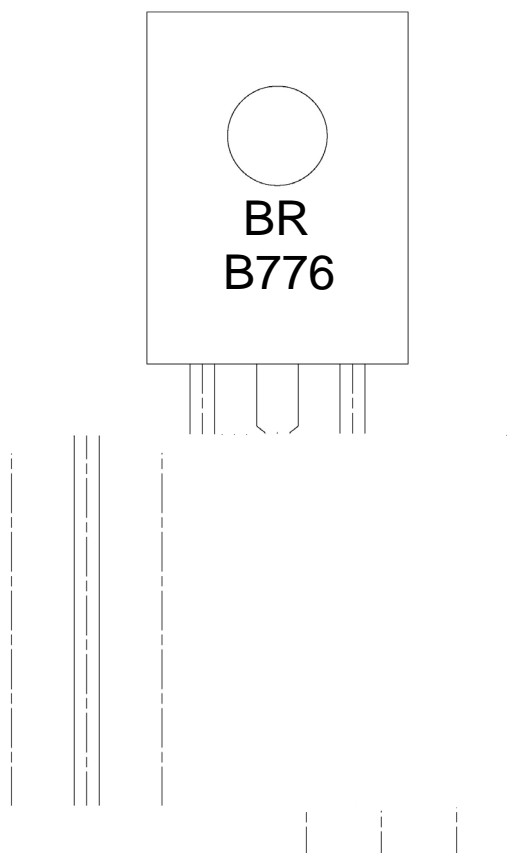
TU-126F

单位: mm



Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
A	7.8	8.2	a1	0.66	0.86
B	10.9	11.9	E	1.27	1.27
R	2.05	3.15	C1	1.9	2.1
b	14	16	c	0.3	0.6
b1		1.9	e		1.27

/ Marking Instructions



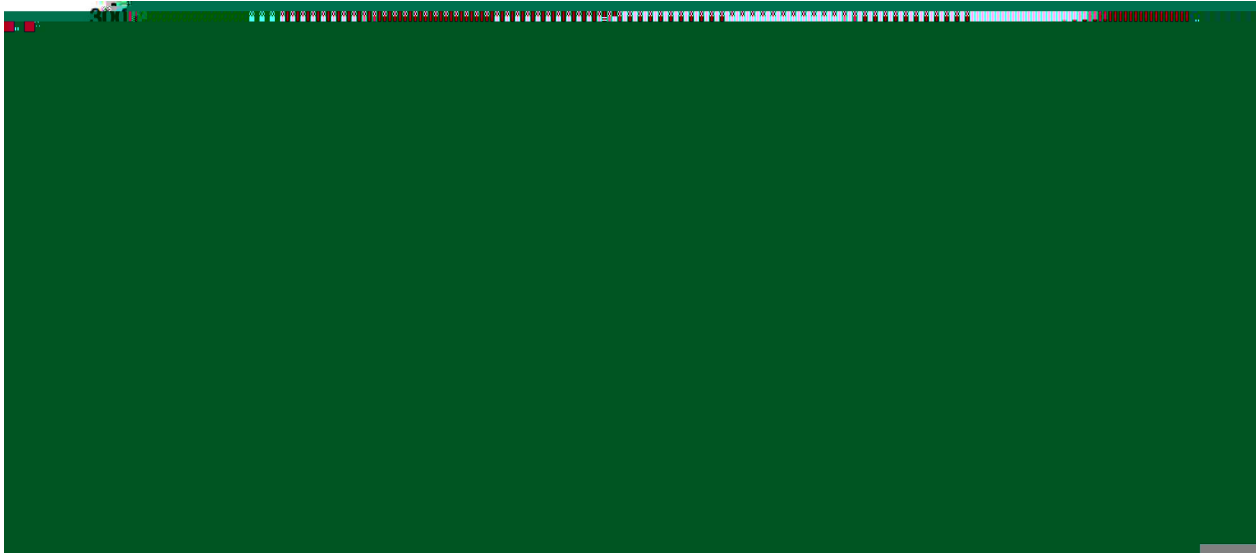
Note:

BR: Company Code

B776: Product Type.

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

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



Note:

- | | | | | | |
|---|-----|-----|----|----------|---|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 255 | 5 | 5 | 0.5sec; | 2.Peak Temp.:255 5 , Duration:5 0.5sec. |
| 3 | | | 2 | 10 /sec. | 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 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	只 套管	套管 盒	只 盒	盒 箱	只 箱	套管	盒	箱

/ TUBE

Package Type 封装形式	Units 包装数量	Dimension 包装尺寸 (unit: mm ³)