

/ Descriptions

TO-92

PNP

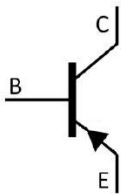
Silicon PNP transistor in a TO-92 Plastic Package.

/ Features

Low current, Low voltage.

/ Applications

General purpose amplifier and switching applications.

/ Equivalent Circuit**/ Pinning**

PIN1	Collector	PIN 2	Base	PIN 3	Emitter
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/ h_{FE} Classifications & Marking

See Marking Instructions.

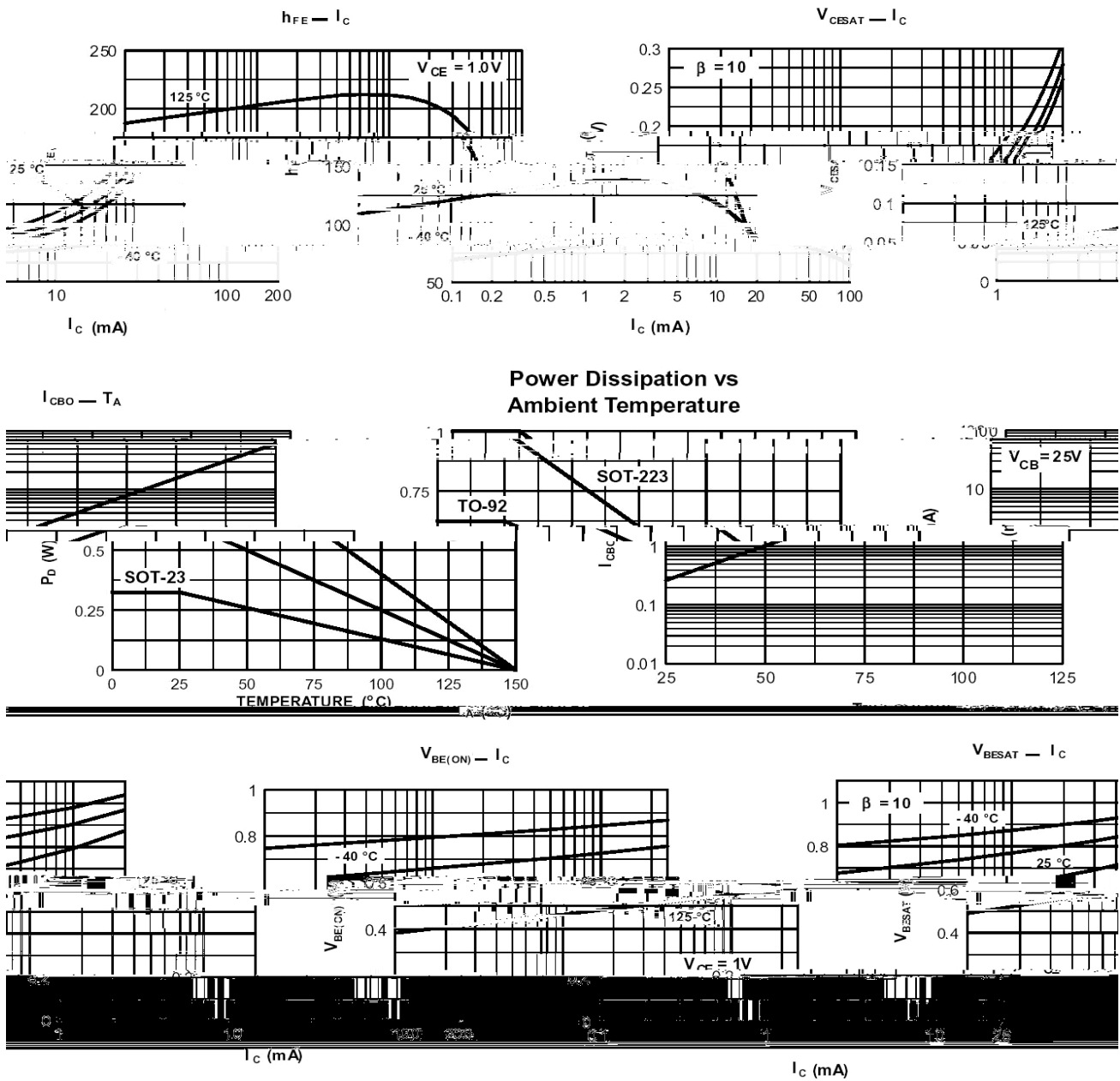
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-25	V
Collector to Emitter Voltage	V_{CEO}	-25	V
Emitter to Base Voltage	V_{EBO}	-4.0	V
Collector Current - Continuous	I_C	-200	mA
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

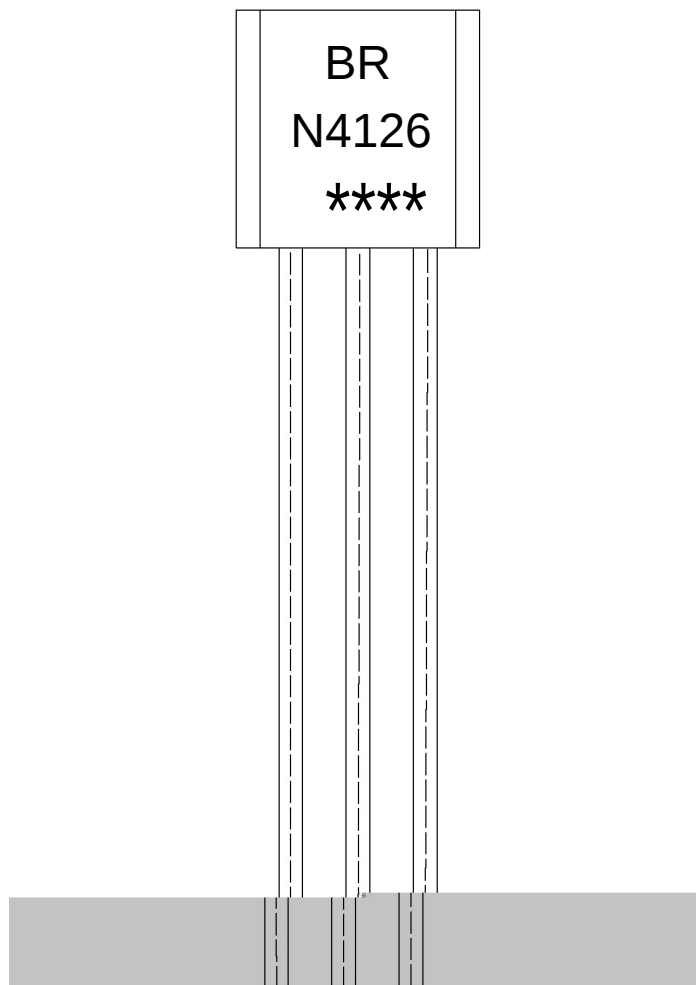
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=-10\text{ A}$ $I_E=0$	-25			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=-1.0\text{mA}$ $I_B=0$	-25			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=-10\text{ A}$ $I_C=0$	-4.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-20\text{V}$ $I_E=0$			-0.05	A
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-3.0\text{V}$ $I_C=0$			-0.05	A
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-1.0\text{V}$ $I_C=-2.0\text{mA}$	120		360	
	$h_{FE(2)}$	$V_{CE}=-1.0\text{V}$ $I_C=-50\text{mA}$	60			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-50\text{mA}$ $I_B=-5.0\text{mA}$			-0.4	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-50\text{mA}$ $I_B=-5.0\text{mA}$			-0.95	V
Current Gain Bandwidth Product	f_T	$I_C=-10\text{mA}$ $V_{CE}=-20\text{V}$ $f=100\text{MHz}$	250			MHz
Input Capacitance	C_{ib}	$V_{EB}=-0.5\text{V}$ $I_C=0$ $f=1.0\text{MHz}$			10	pF
Collector-Base Capacitance	C_{cb}	$V_{CB}=-5.0\text{V}$ $I_E=0$ $f=100\text{KHz}$			4.5	pF
Noise Figure	NF	$I_C=-100\text{ A}$ $V_{CE}=-5.0\text{V}$ $R_s=1.0\text{K}$ $f=10\text{Hz to } 15.7\text{KHz}$			4.0	dB

/ Electrical Characteristic Curve



/ Marking Instructions



BR

N4126

Note:

BR: Company Code.

N4126: 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: mm3)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
TO-92	1,000	10	10,000	5	50,000	135×190	237×172×102	560×245×195
	1,000	10	10,000	10	100,000	135×190	237×172×102	560×245×375

/ AMMO

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)	
	Units/tape 只/纸带	Tape/Inner Box 纸带/盒	Rows/Inner Box 纸带层/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Inner Box 盒	Outer Box 箱
TO-92	3,000	1	120	10	30,000	328×230×42	小箱 480×346×235, 大箱 547×407×268

/ Notices