

**/ Descriptions**

TO-92          PNP          Silicon PNP transistor in a TO-92 Plastic Package.

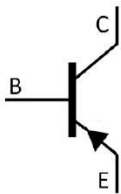
**/ Features**

Low current, Low voltage.

**/ Applications**

General purpose amplifier and switching applications.

**/ Equivalent Circuit**



**/ Pinning**



PIN1    Collector          PIN 2    Base          PIN 3    Emitter

**/  $h_{FE}$  Classifications & Marking**

See Marking Instructions.

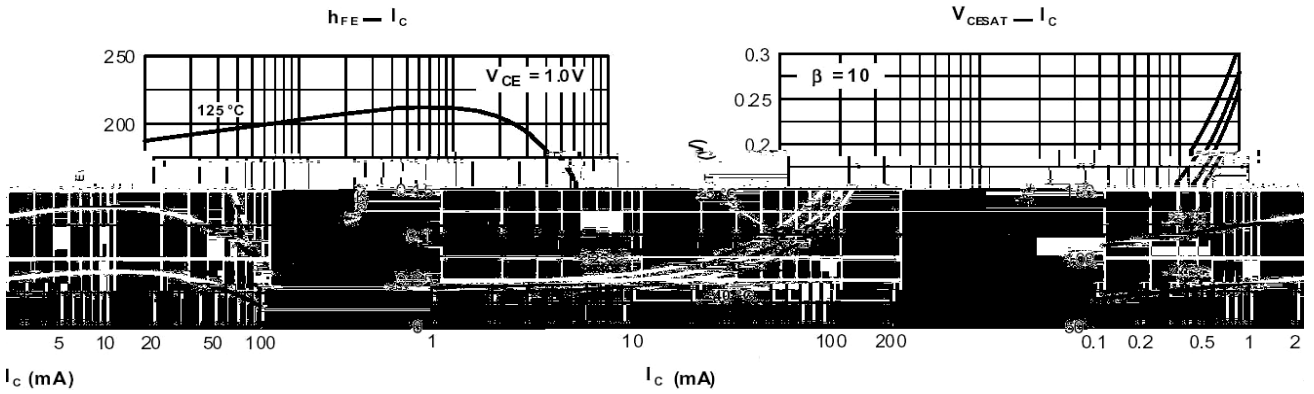
## / Absolute Maximum Ratings(Ta=25 )

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

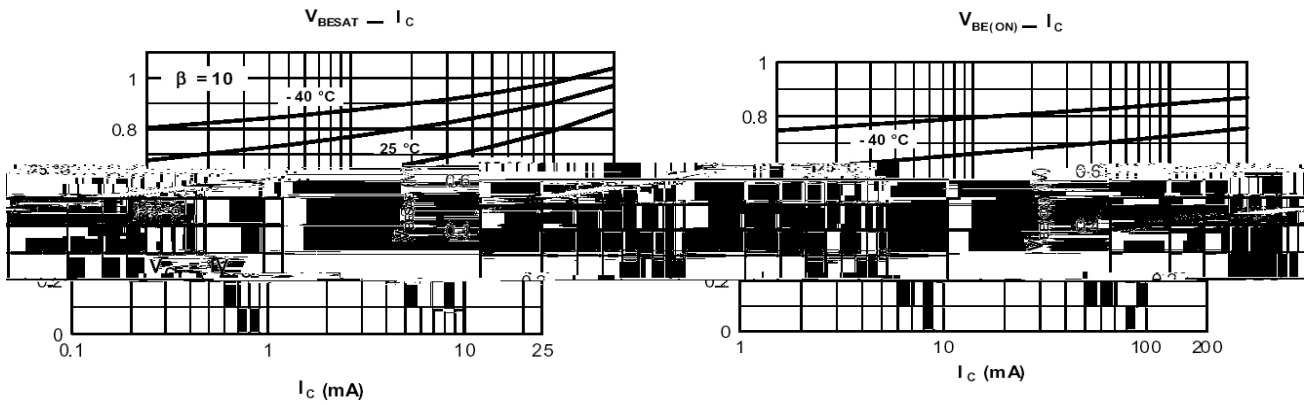
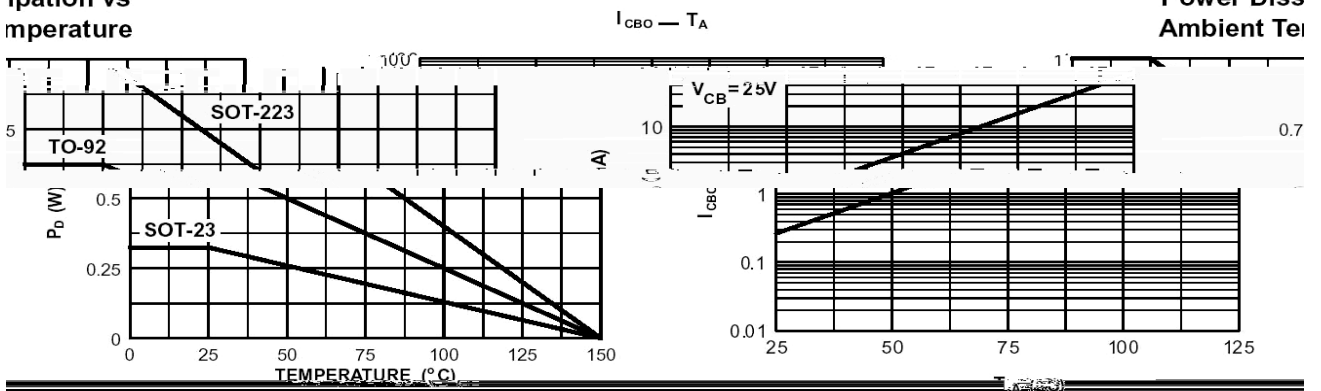
## / Electrical Characteristics(Ta=25 )

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	$f_T$	$I_C=-10\text{mA}$ $f=100\text{MHz}$ $V_{CE}=-20\text{V}$	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

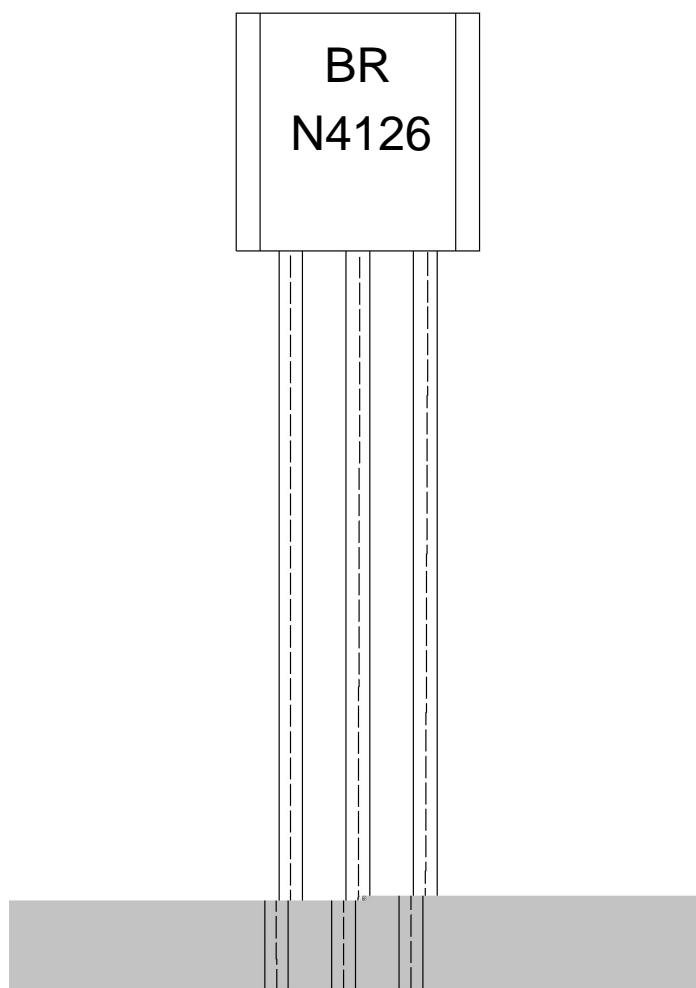


ipation vs  
mperature



**2N4126**  
Rev.E Mar.-2016

/ Marking Instructions



BR

N 4126

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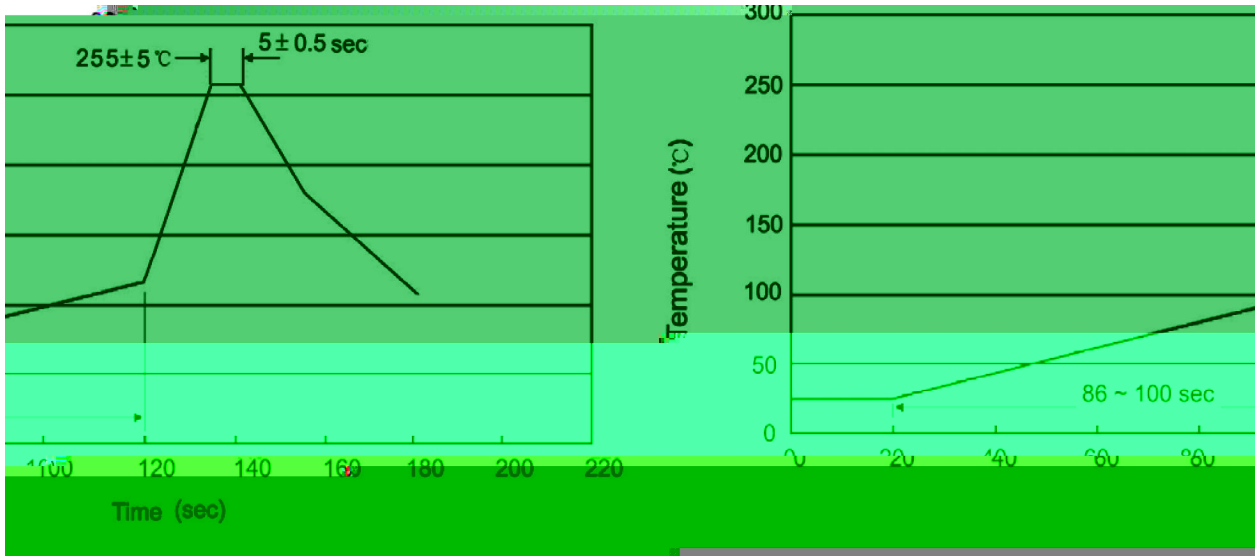
Note:

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°C                      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)		
	只袋	袋盒	只盒	盒箱	只箱	袋	盒	箱

/ AMMO

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)	
	只纸带	纸带盒	纸带层盒	盒箱	只箱	盒	箱
						小箱	大箱

/ Notices