

描述 / Descriptions

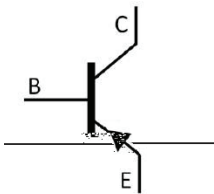
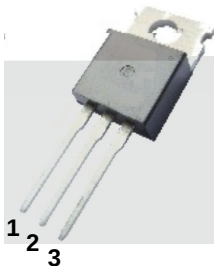
Silicon PNP transistor in a TO-220 Plastic Package.

特征 / Features

Complement to 2N6122.

用途 / Applications

Medium power linear switching applications.

内部等效电路 / Equivalent Circuit**引脚排列 / Pinning**

PIN1 Base PIN 2 Collector PIN 3 Emitter

放大及印章代码 / h_{FE} Classifications & Marking

See Marking Instructions.

极限参数 / Absolute Maximum Ratings(Ta=25°C)

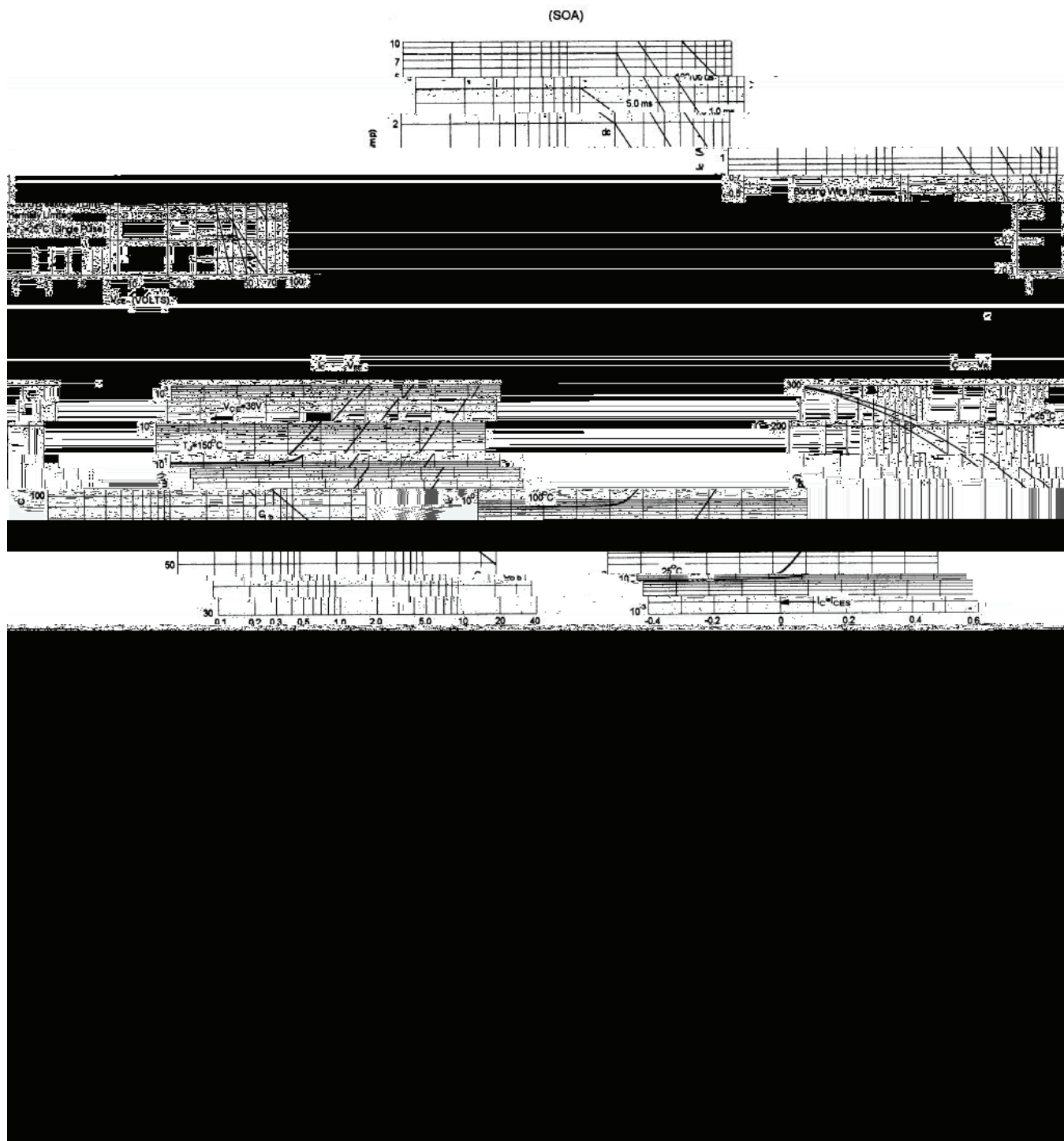
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-60	V
Collector to Emitter Voltage	V_{CEO}	-60	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-4.0	A
Peak Collector Current	I_{CM}	-7.0	A
Base Current - Continuous	I_B	-1.0	A
Collector Power Dissipation	$P_C(T_C=25^\circ\text{C})$	40	W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

电性能参数 / Electrical Characteristics(Ta=25°C)

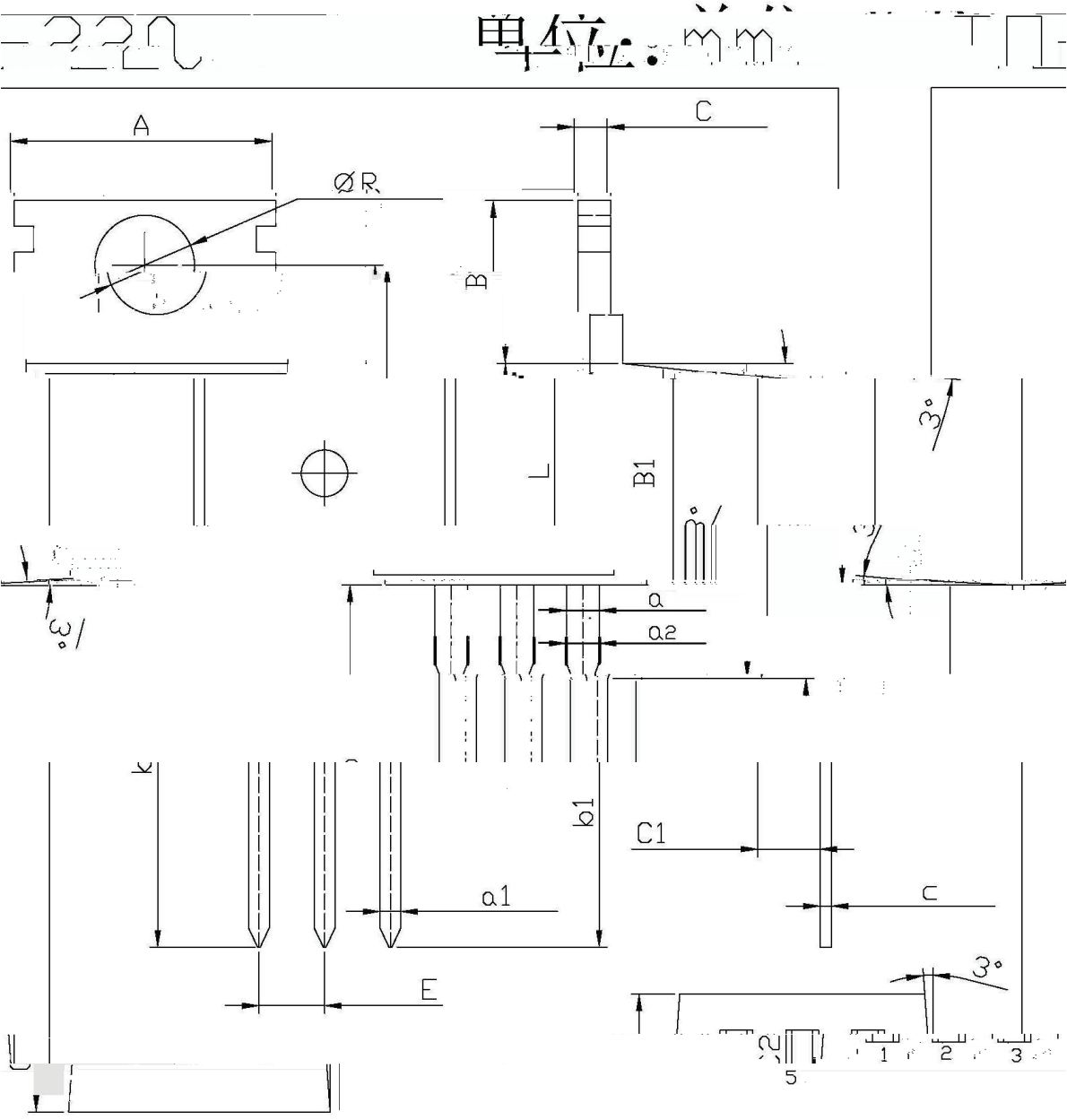
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage*	$*V_{CEO}$	$I_C=-100\text{mA}$ $I_B=0$	-60			V
Collector to Emitter Breakdown Voltage	V_{CBO}	$I_C=-1\text{mA}$ $I_E=0$	-60			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=-1\text{mA}$ $I_C=0$	-5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-60\text{V}$ $I_E=0$			-0.1	mA
Collector Cut-Off Current	I_{CEO}	$V_{CE}=-60\text{V}$ $I_B=0$			-1.0	mA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-5.0\text{V}$ $I_C=0$			-1.0	mA
DC Current Gain	$*h_{FE(1)}$	$V_{CE}=-2.0\text{V}$ $I_C=-1.5\text{A}$	25		100	
	$*h_{FE(2)}$	$V_{CE}=-2.0\text{V}$ $I_C=-4.0\text{A}$	10			
Collector to Emitter Saturation Voltage*	$*V_{CE(sat)}$	$I_C=-1.5\text{A}$ $I_B=0.15\text{A}$			-0.6	V
Collector to Emitter Saturation Voltage*	$*V_{CE(sat)}$	$I_C=-4.0\text{A}$ $I_B=-1.0\text{A}$			-1.4	V
Base to Emitter On Voltage*	$*V_{BE(on)}$	$I_C=-1.5\text{A}$ $V_{CE}=-2.0\text{V}$			-1.2	V
Transition Frequency	f_T	$I_C=-1.0\text{A}$ $V_{CE}=-4.0\text{V}$ $f=1.0\text{MHz}$	2.5			MHz

*Pulse test: pulse width 300 μs ; duty cycle 2%. μ

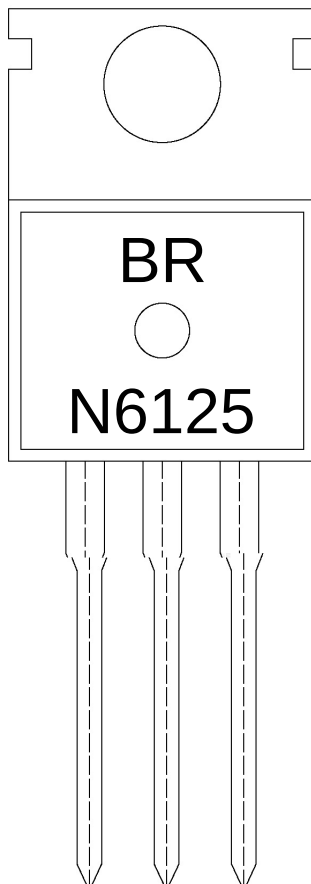
电参数曲线图 / Electrical Characteristic Curve



外形尺寸图 / Package Dimensions



印章说明 / Marking Instructions



BR

N6125

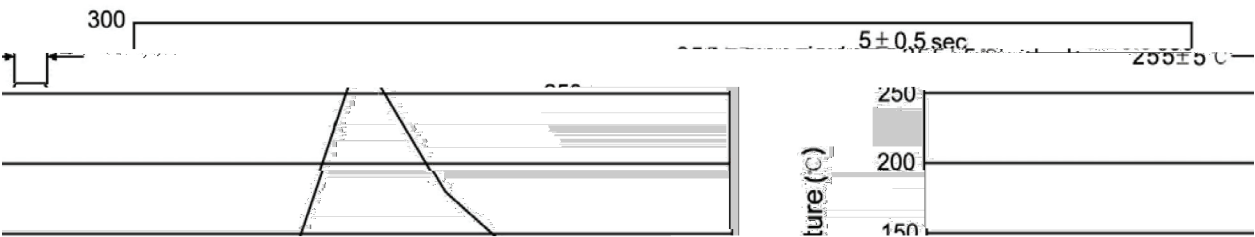
Note:

BR: Company Code

N6125: Product Type.

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

波峰焊温度曲线图(无铅) / 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. |

耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions

270 5 10 1 sec. Temp.:270±5℃ Time:10±1 sec

包装规格 / Packaging SPEC.

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	只袋	袋盒	只盒	盒箱	只箱	袋	盒	箱

/ TUBE

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

使用说明 / Notices