

**/ Descriptions**

TO-220          PNP          Silicon PNP transistor in a TO-220 Plastic Package.

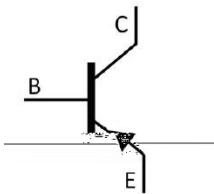
**/ Features**

        ,          2SC2654  
Large current capacity with small package, low collector saturation voltage, pair with 2SC2654.

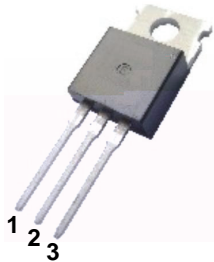
**/ Applications**

For low-frequency power amplifiers and mid-speed switching.

**/ Equivalent Circuit**



**/ Pinning**



PIN1    Base          PIN 2    Collector          PIN 3    Emitter

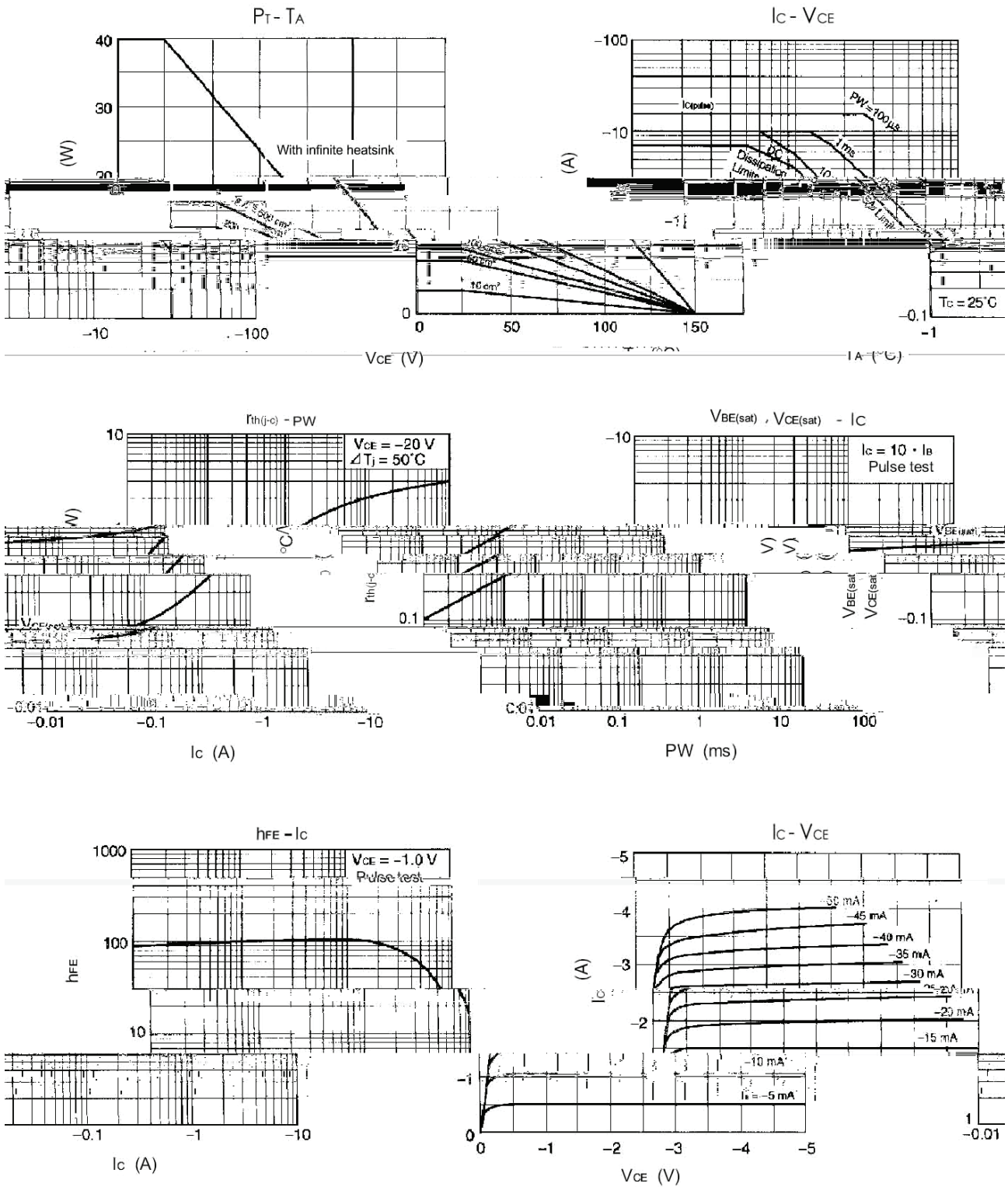
**/ h<sub>FE</sub> Classifications & Marking**

h <sub>FE</sub> Classifications Symbol	M	L	K	J
h <sub>FE</sub> Range	40~80	60~120	100~200	160~320

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CB0}$	-100	V
Collector to Emitter Voltage	$V_{CEO}$	-40	V
Emitter to Base Voltage	$V_{EBO}$	-7.0	V
Collector Current - Continuous	$I_C$	-7.0	A
Collector Current – Continuous(Pulse)	$I_{CP}$	-15	A
Base Current - Continuous	$I_B$	-3.5	A
Collector Power Dissipation	$P_C(T_C=25^{\circ}C)$	40	W
	$P_C$	1.5	W
Junction Temperature	$T_j$	150	$^{\circ}C$
Storage Temperature Range	$T_{stg}$	-55~150	$^{\circ}C$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
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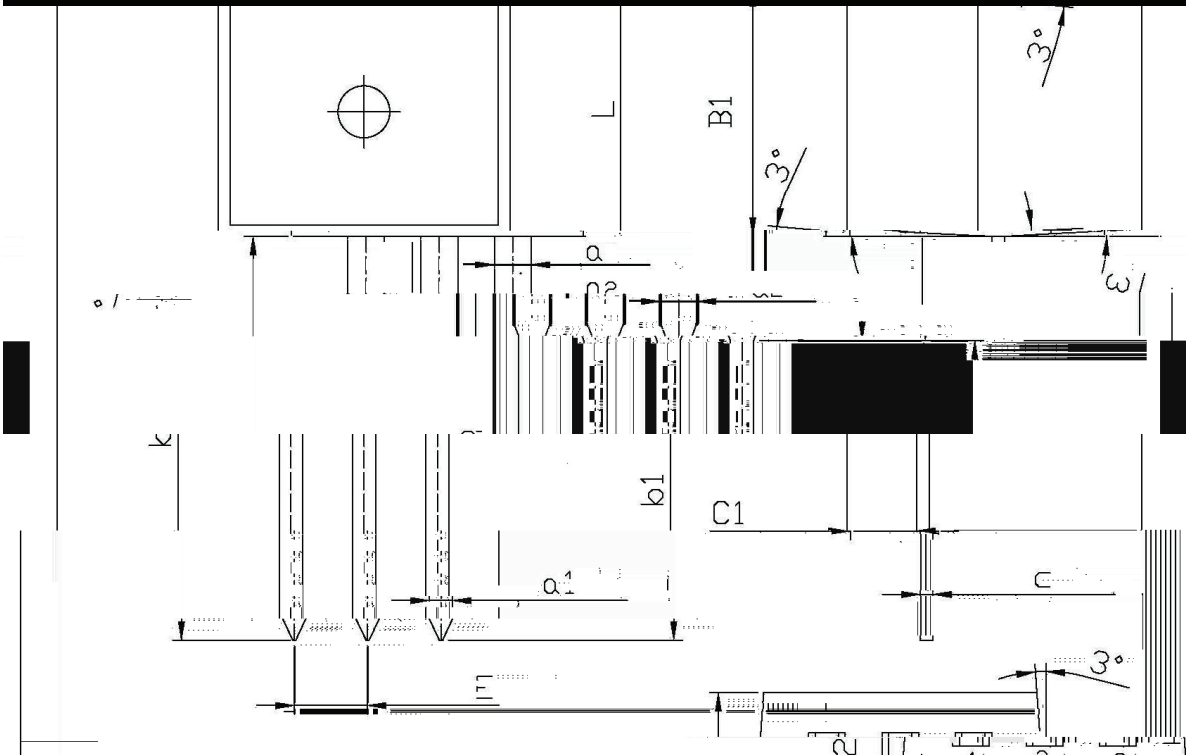
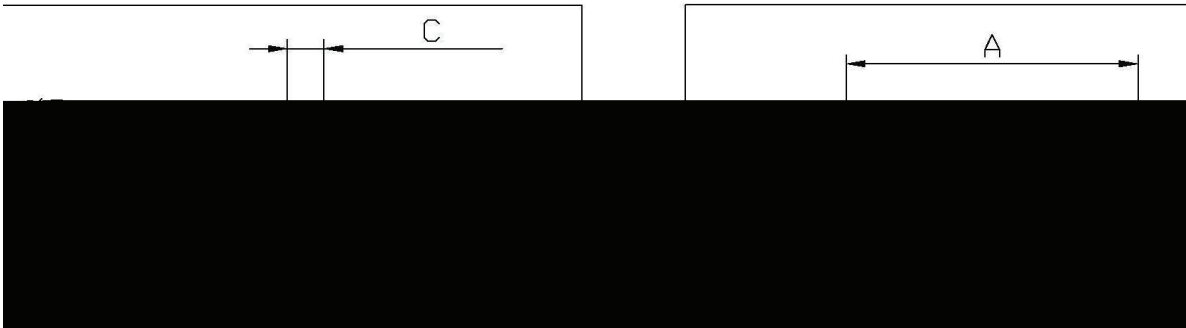
/ Electrical Characteristic Curve



/ Package Dimensions

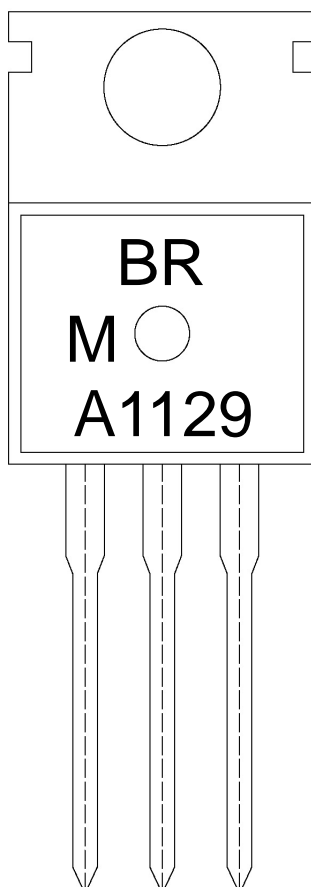
单位: mm

T0-220



Symbol	Dimensions in millimeters		Symbol	Dimensions in millimeters	
	Min	Max		Min	Max
A	9.8	10.2	C	1.2	1.4
B	3.56	3.64	B1	6.3	6.7
B1	9.0	9.4	C1	2.2	2.6
C	0.4	0.6	a	1.22	
C2	4.3	4.7	E	2.34	
k	1.45		Q2	0.2	1.25

/ Marking Instructions



BR

A1129

M:  $h_{FE}$

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Note:

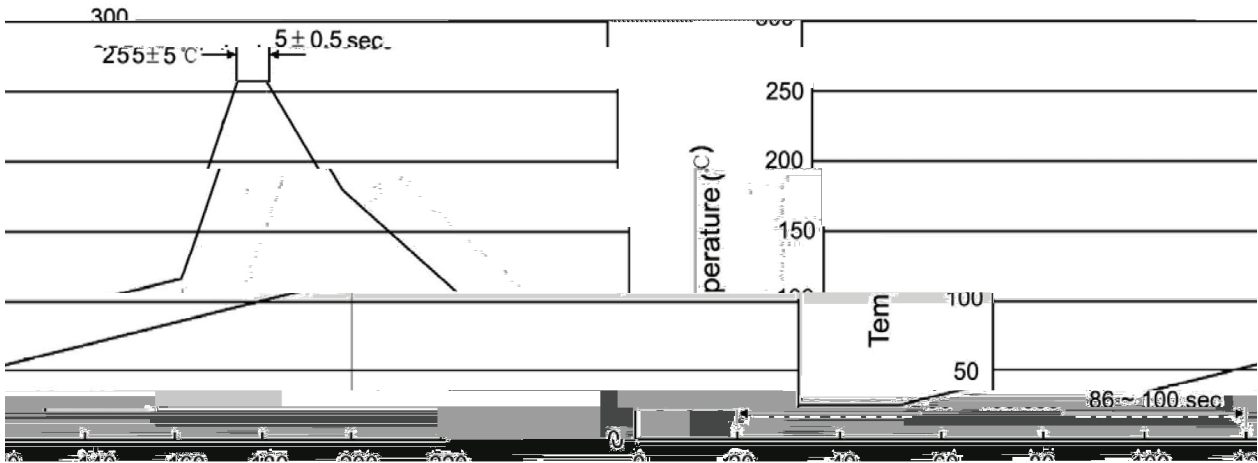
BR: Company Code

A1129: Product Type.

M:  $h_{FE}$  Classifications Symbol

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

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



Note:

- |   |       |     |           |        |   |
|---|-------|-----|-----------|--------|---|
| 1 | 25    | 150 | 60        | 90sec; | 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: mm <sup>3</sup> )		
	只袋	袋盒	只盒	盒箱	只箱	袋	盒	箱

/ TUBE

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