# 2SD2098

Rev.E Mar.-2016

蓝箭电子 BLUE ROCKET ELECTRONICS

**DATA SHEET**

## "Yت / Descriptions

SOT-89 NPN Silicon NPN transistor in a SOT-89 Plastic Package.

## ◕È / Features

, , 2SB1386

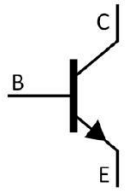
Low $V_{CE(sat)}$, excellent DC current gain , complements the 2SB1386.

## ٭ ِ / Applications

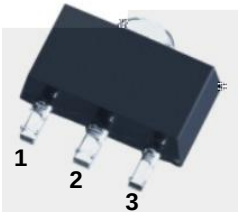
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Strobe flash applications, general power amplifier applications.

## Л ُ ً ≠ ع / Equivalent Circuit




## ãَ ُ ً / Pinning




PIN1 Base PIN 2 Collector PIN 3 Emitter

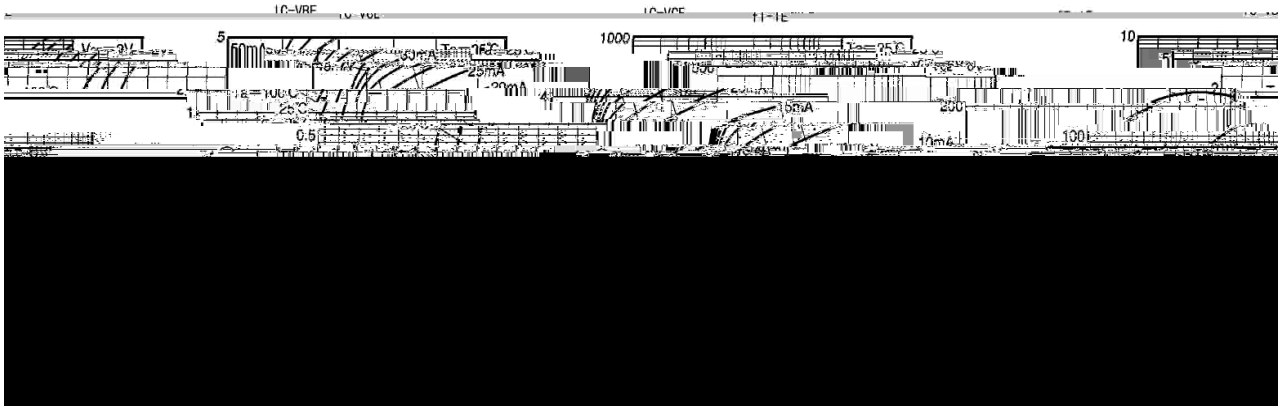
## ł. ʜ ت / Marking

| $h_{FE}$ Classifications Symbol | Q | R |
|---|---|---|
| $h_{FE}$ Range | 120 270 | 180 390 |
| Marking | HAHQ‡ | HAHR ‡ |

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Collector to Base Voltage | $V_{CBO}$ | 50 | V |
| Collector to Emitter Voltage | $V_{CEO}$ | 20 | V |
| Emitter to Base Voltage | $V_{EBO}$ | 6.0 | V |
| Collector Current-Continuous | $I_C$ | 5.0 | A |
| Collector Current -Continuous(Pulse) | $I_{CP}$ | 10 | A |
| Collector Power Dissipation | $P_C$ | 0.5 | W |
| Junction Temperature | $T_j$ | 150 | |
| Storage Temperature Range | $T_{stg}$ | -55 150 | |

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Collector to Base Breakdown Voltage | $V_{CBO}$ | $I_C$=50μA $I_E$ | | | | |

## ≠ ∃ ₹Ą´E ∀ ƒ / Electrical Characteristic Curve

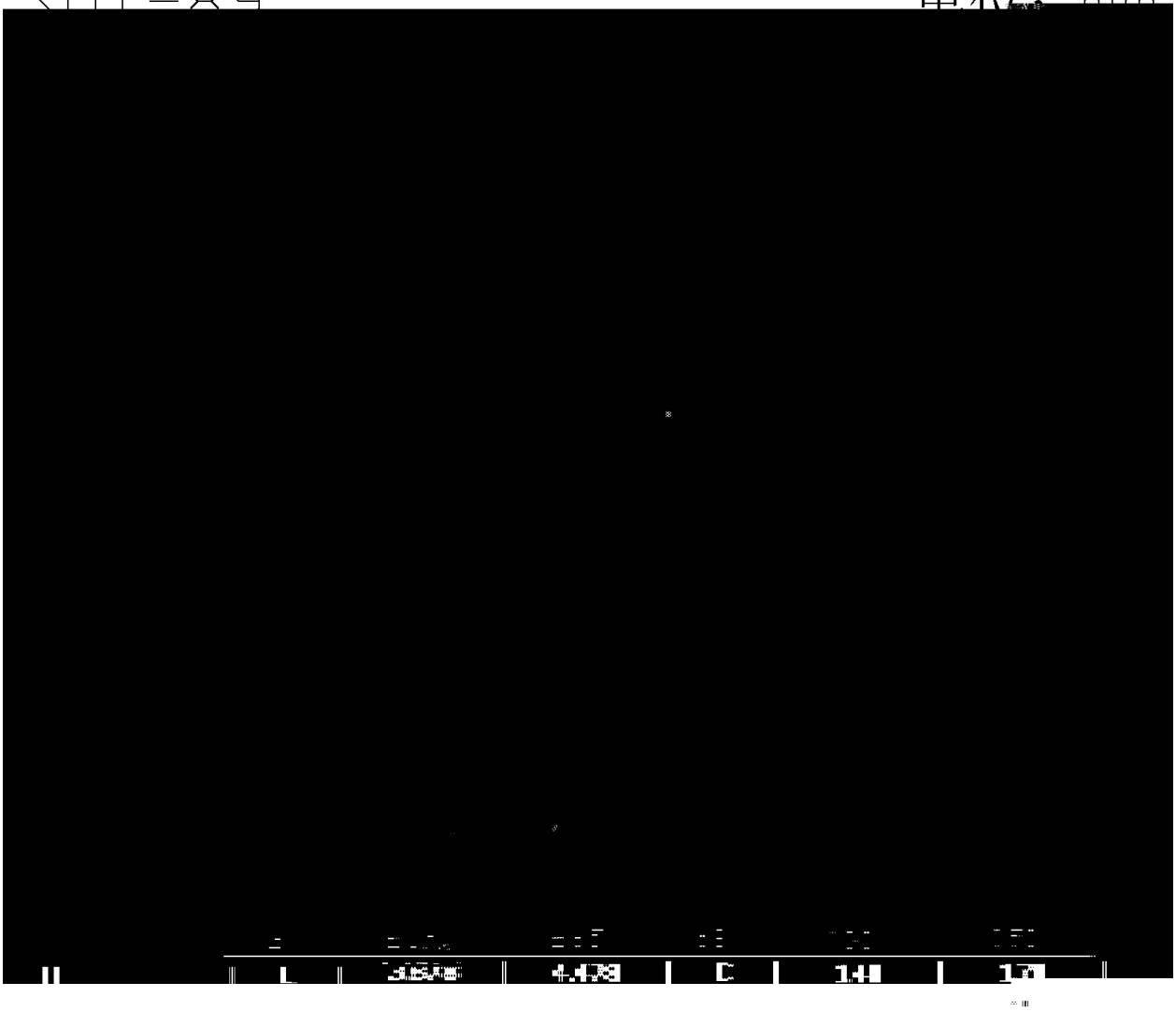




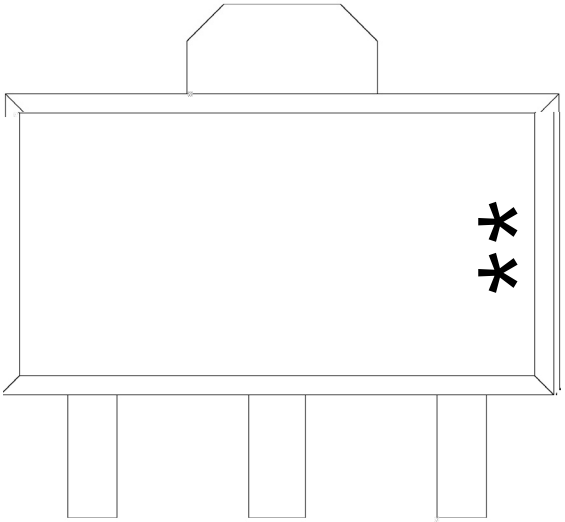



## ᵘ ĖÒĻ ʃ / Package Dimensions

SOT-89 单位：mm



## Ł. Ł Ω / Marking Instructions




H

AH

Q $h_{FE}$

**

Note:

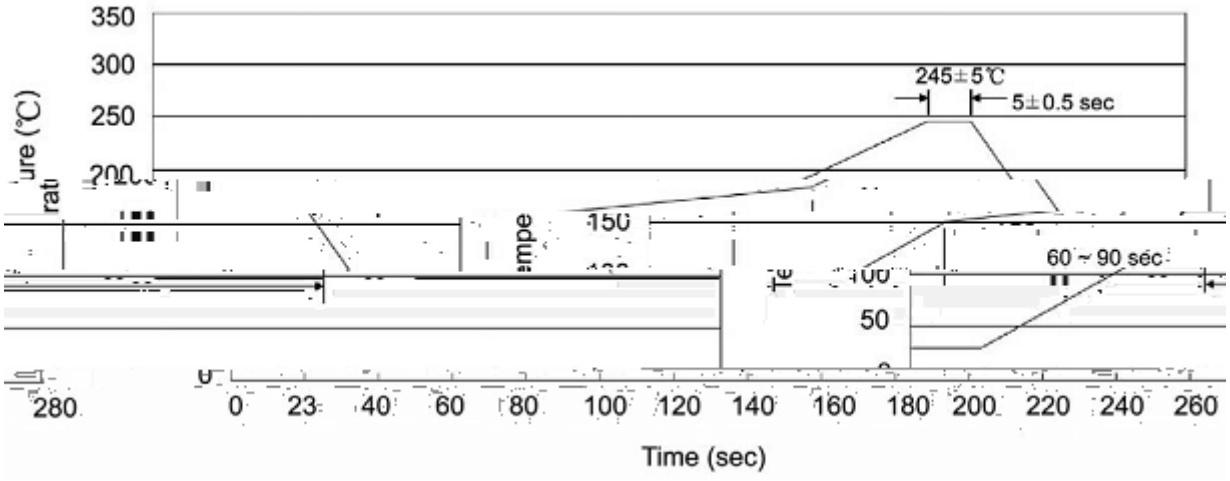
H: Company Code.

AH: Product Type.

Q $h_{FE}$ Classifications Symbol

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

## ѭ ʃ ╕ ẘ ´E ⅵ ƒ (ѽ ƨ) / Wh p shudwxuh Suriloh iru LU Uhio r z Vroghulq j+Se0luhh,




Note:

| | | | | | |
|---|---|---|---|---|---|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 245±5 | | | 5±0.5sec; | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

## ⅎ ü q ‗ `Y Ţ / Resistance to Soldering Heat Test Conditions

| | | | |
|---|---|---|---|
| 260±5 | 10±1 sec. | Temp.:260±5 | Time:10±1 sec |

## ɒ Ŀ ≮ — / Packaging SPEC.

/ REEL

| Package Type 封装形式 | Units 包装数量 | | | | | Dimension 包装尺寸 (unit: $mm^3$) | | |
|---|---|---|---|---|---|---|---|---|
| | Units/Reel 只/卷盘 | Reels/Inner Box 卷盘/盒 | Units/Inner Box 只/盒 | Inner Boxes/Outer Box 盒/箱 | Units/Outer Box 只/箱 | Reel | Inner Box 盒 | Outer Box 箱 |
| SOT-89 | 1,000 | 7 | 7,000 | 8 | 56,000 | 7 ×12 | 180×120×180 | 385×257×392 |

## ä ѵ ŗ Ω / Notices