

Continued from preceding page.

| Parameter | Symbol | Conditions | Ratings | Unit |
|-----------------------|------------------|----------------------|-------------|------|
| Collector Dissipation | P _C | | 0.8 | W |
| | | T _C =25°C | 10 | W |
| Junction Temperature | T _J | | 150 | °C |
| Storage Temperature | T _{stg} | | -55 to +150 | °C |

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

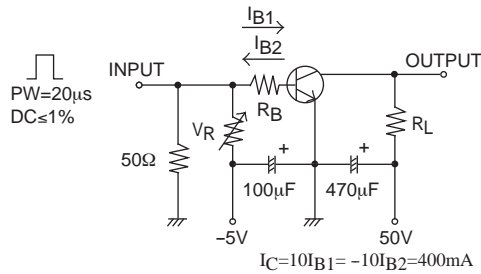
Electrical Characteristics at T_a=25°C

| Parameter | Symbol | Conditions | Ratings | | | Unit |
|---|----------------------|---|---------|------|------|------|
| | | | min | typ | max | |
| Collector Cutoff Current | I _{CBO} | V _{CB} =100V, I _E =0A | | | 100 | nA |
| Emitter Cutoff Current | I _{EBO} | V _{EB} =4V, I _C =0A | | | 100 | nA |
| DC Current Gain | h _{FE} | V _{CE} =5V, I _C =100mA | 100* | | 400* | |
| Gain-Bandwidth Product | f _T | V _{CE} =10V, I _C =100mA | | 120 | | MHz |
| Output Capacitance | C _{ob} | V _{CB} =10V, f=1MHz | | 8.5 | | pF |
| Collector-to-Emitter Saturation Voltage | V _{CE(sat)} | I _C =400mA, I _B =40mA | | 0.1 | 0.4 | V |
| Base-to-Emitter Saturation Voltage | V _{BE(sat)} | I _C =400mA, I _B =40mA | | 0.85 | 1.2 | V |
| Collector-to-Base Breakdown Voltage | V _{(BR)CBO} | I _C =10μA, I _E =0A | 120 | | | V |
| Collector-to-Emitter Breakdown Voltage | V _{(BR)CEO} | I _C =1mA, R _{BE} =∞ | 100 | | | V |
| Emitter-to-Base Breakdown Voltage | V _{(BR)EBO} | I _E =10μA, I _C =0A | 6 | | | V |
| Turn-ON Time | t _{on} | See specified Test Circuit. | | 80 | | ns |
| Storage Time | t _{stg} | | | 850 | | ns |
| Fall Time | t _f | | | 50 | | ns |

* : The 2SC4134 is classified by 100mA h_{FE} as follows :

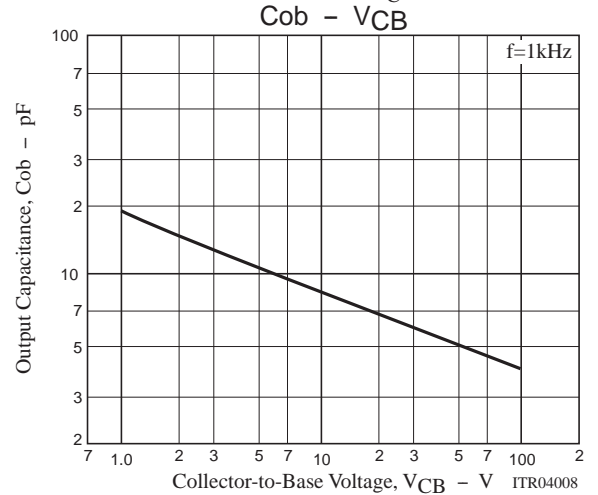
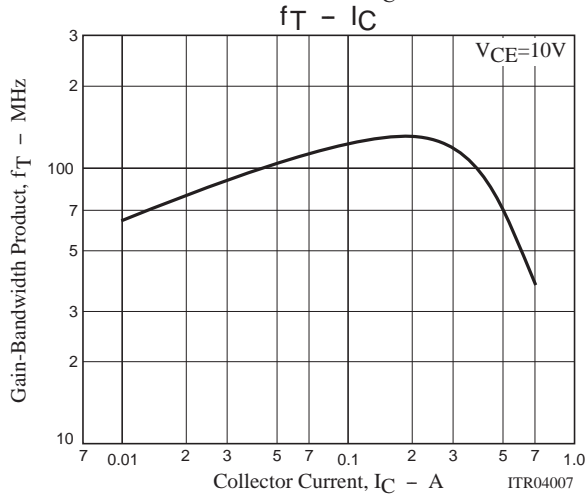
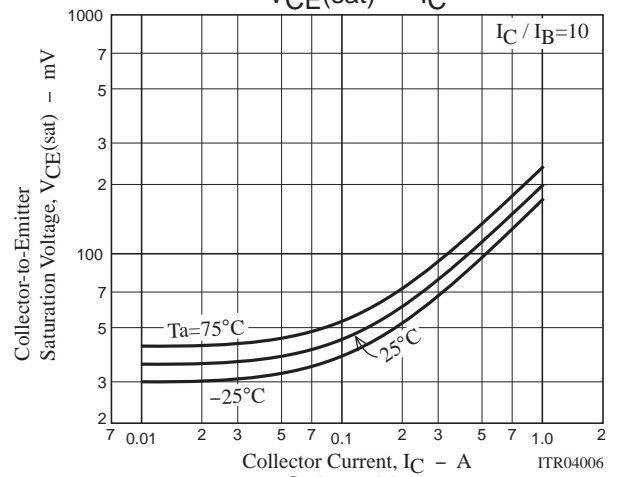
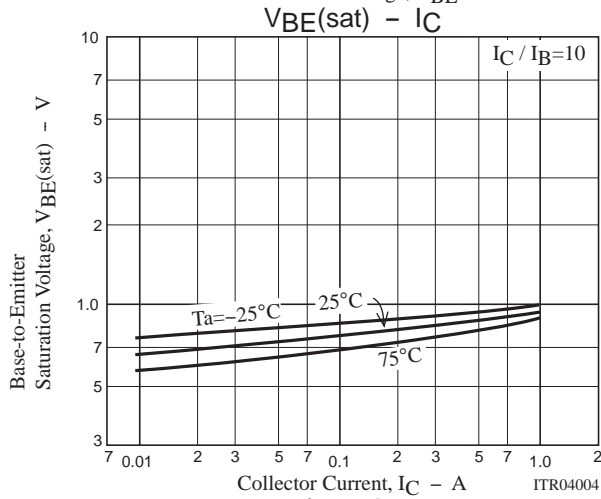
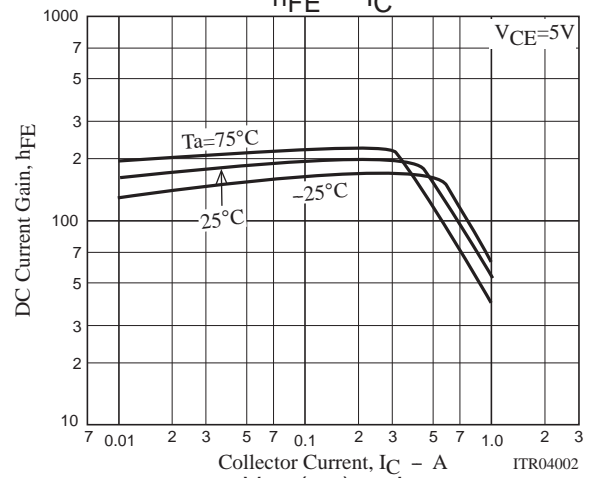
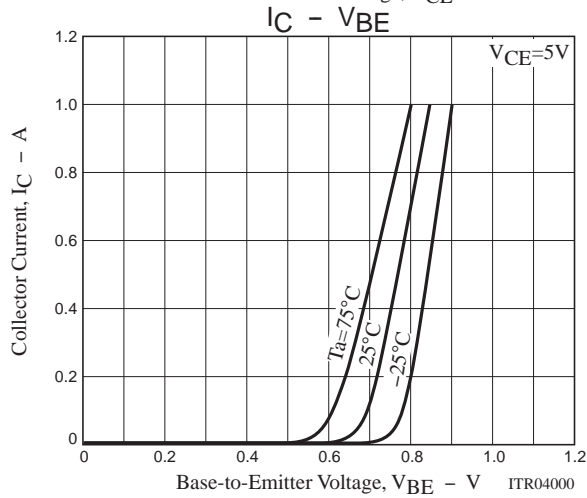
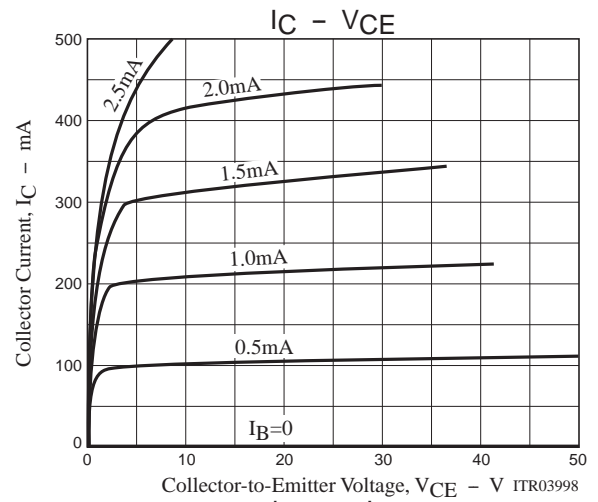
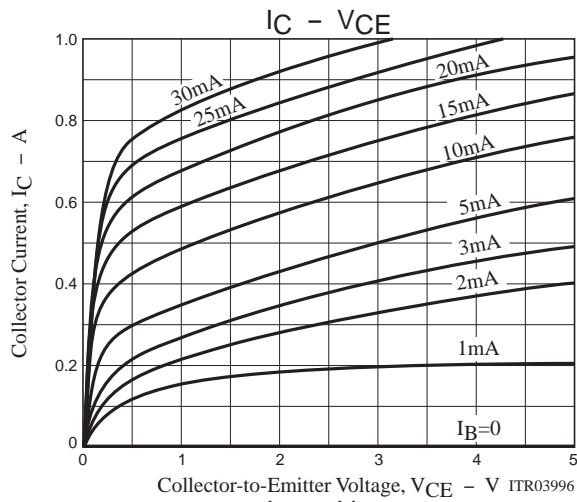
| Rank | R | S | T |
|-----------------|------------|------------|------------|
| h _{FE} | 100 to 200 | 140 to 280 | 200 to 400 |

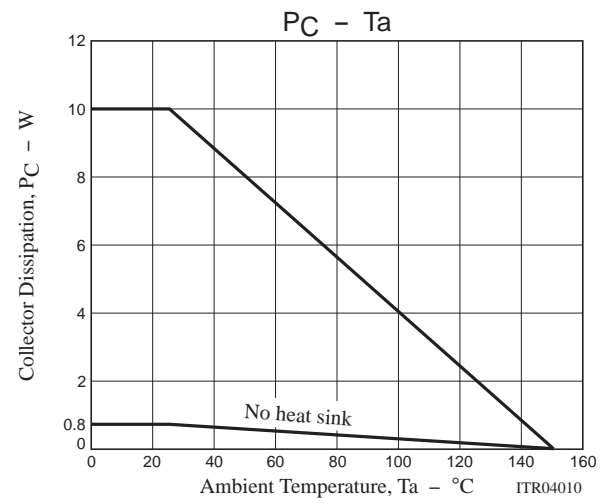
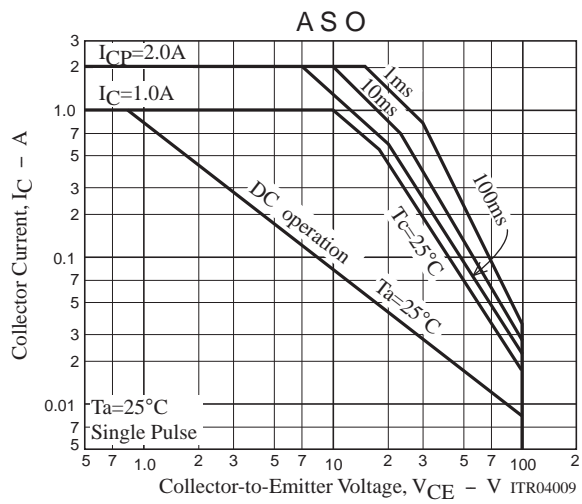
Switching Time Test Circuit



Ordering Information

| Device | Package | Shipping | memo |
|---------------|---------|--------------|---------|
| 2SC4134S-E | TP | 500pcs./bag | Pb Free |
| 2SC4134T-E | TP | 500pcs./bag | |
| 2SC4134S-TL-E | TP-FA | 700pcs./reel | |
| 2SC4134T-TL-E | TP-FA | 700pcs./reel | |





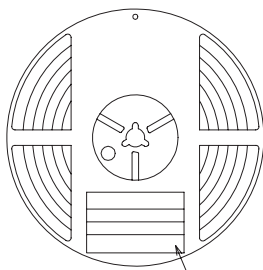
Taping Specification

2SC4134S-TL-E, 2SC4134T-TL-E

Packing Format

| Package Name | Carrier Tape Type | Maximum Number of devices contained (pcs) | | | Packing format | |
|--------------|-------------------|---|-----------|-----------|---|--|
| | | Reel | Inner box | Outer box | Inner BOX (C-1) | Outer BOX (A-7) |
| TP-FA | TP | 700 | 2,100 | 12,600 | 3 reels contained Dimensions:mm (external) 183×72×185 | 6 inner boxes contained Dimensions:mm (external) 440×195×210 |

Packing method



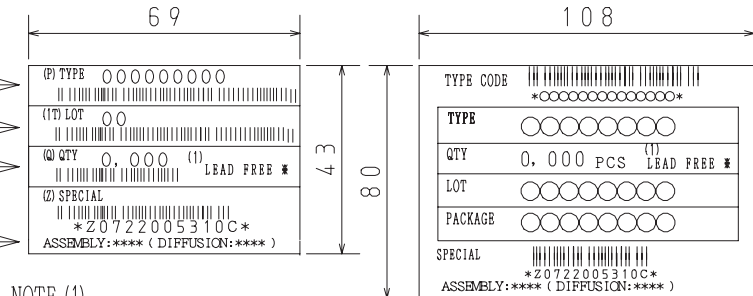
Reel label

Type No.
LOT No.
Quantity
Origin

Reel label, Inner box label
(unit:mm)

Outer box label

It is a label at the time of factory shipments.
The form of a label may change in physical
distribution process.



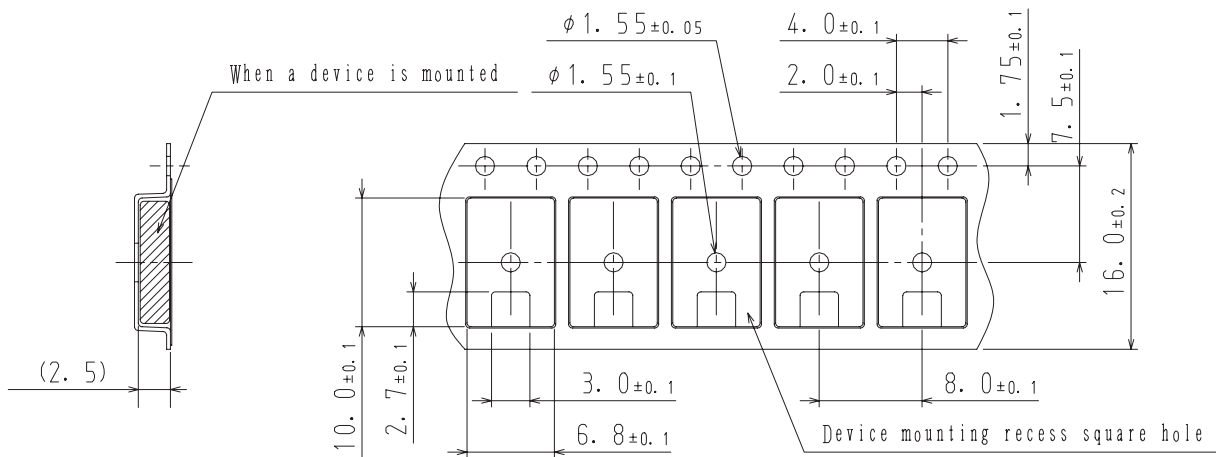
NOTE (1)

The LEAD FREE * description shows that the surface
treatment of the terminal is lead free.

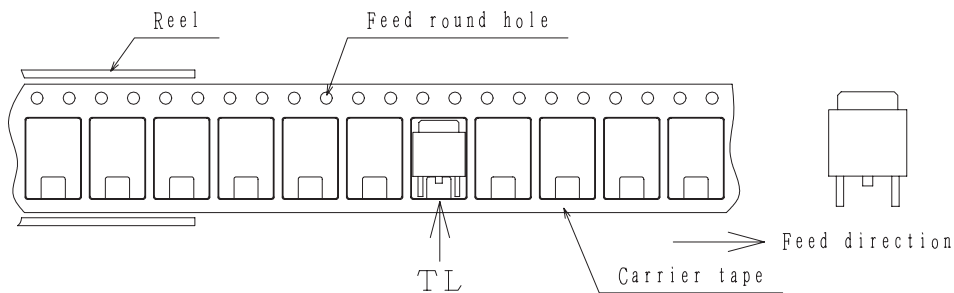
| Label | JEITA Phase |
|-------------|----------------|
| LEAD FREE 3 | JEITA Phase 3A |
| LEAD FREE 4 | JEITA Phase 3 |

Taping configuration

1. Carrier tape size (unit:mm)



2. Device placement direction

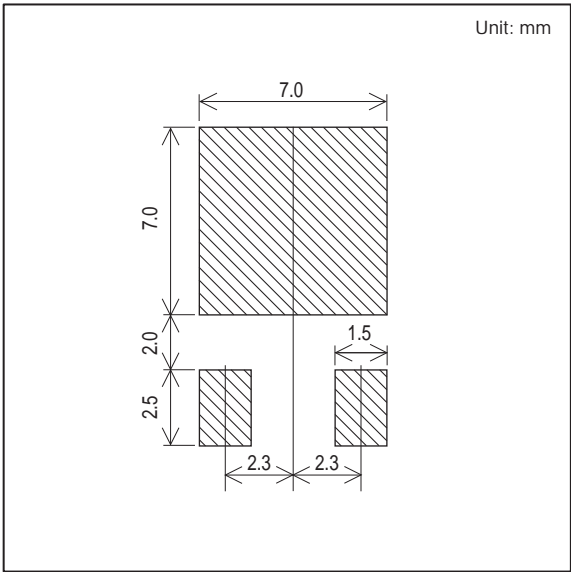
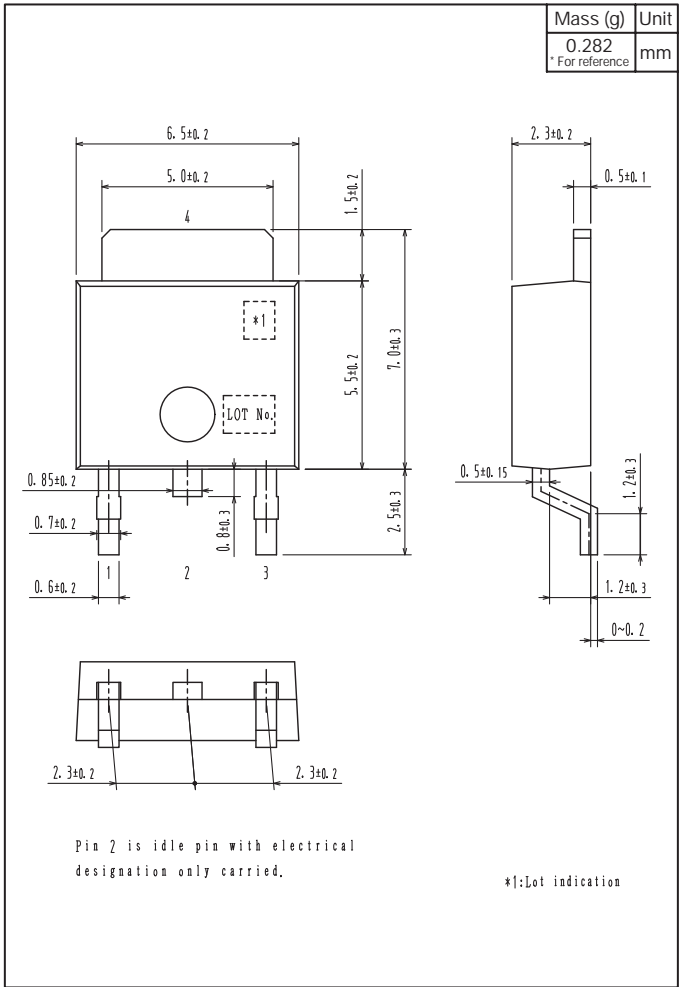


Those with one electrode terminal on the feed hole side.....TL

Outline Drawing

2SC4134S-TL-E, 2SC4134T-TL-E

Land Pattern Example

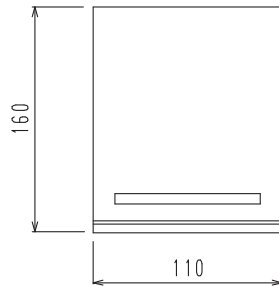
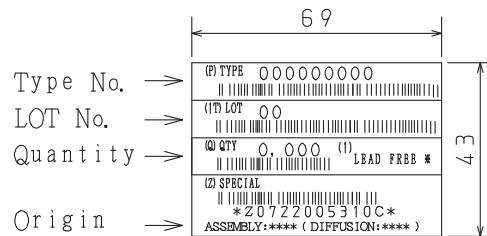


Bag Packing Specification

2SC4134S-E, 2SC4134T-E

1. Packing Format

| Package Name | Maximum Number of devices contained (pcs) | | | |
|--------------|---|---|-------------|-------------|
| | Bag | Inner box | Outer box | |
| TP | 500 | B-1 | A-1 | A-2 |
| | | 10, 000 | 50, 000 | 30, 000 |
| | | Packing format (Dimensions:mm (external)) | | |
| | | Inner box | Outer box | |
| | | B-1 | A-1 | A-2 |
| | | 445×225×55 | 470×250×300 | 470×250×190 |

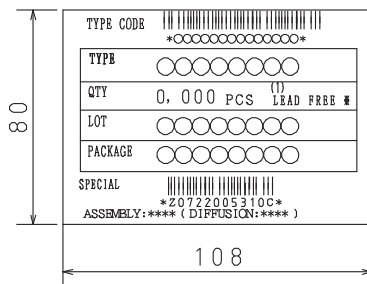
2. Bag dimensions
(unit:mm)3. Bag label, Inner box label
(unit:mm)4. Outer box label
(unit:mm)

It is a label at the time of factory shipments.
The form of a label may change in physical
distribution process.

NOTE (1)

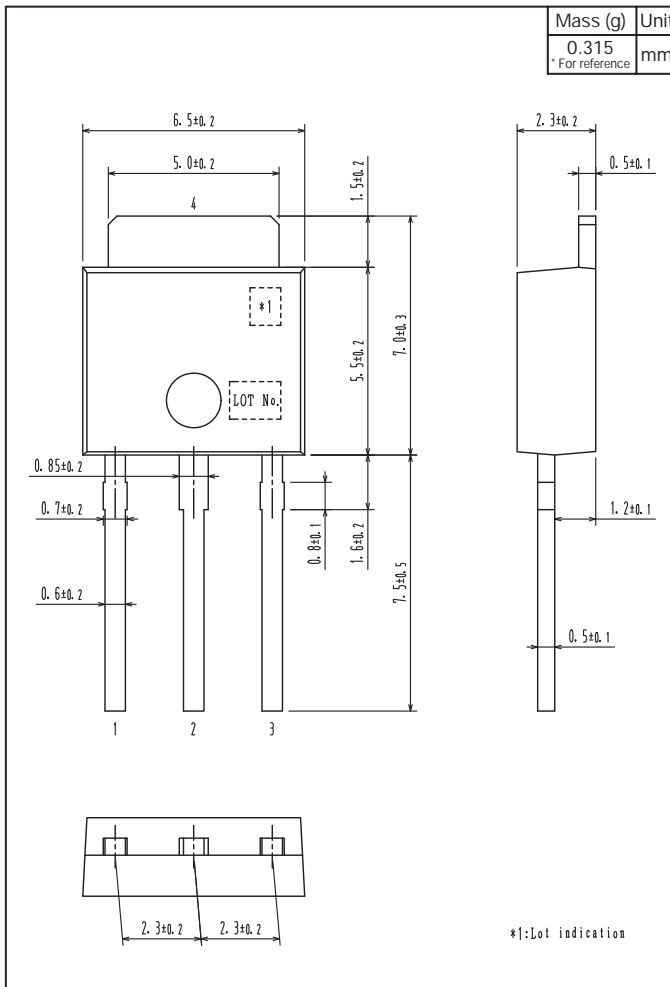
The LEAD FREE * description shows that the
surface treatment of the terminal is lead free.

| Label | JEITA Phase |
|-------------|----------------|
| LEAD FREE 3 | JEITA Phase 3A |
| LEAD FREE 4 | JEITA Phase 3 |



Outline Drawing

2SC4134S-E, 2SC4134T-E



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