



| A | 2016-3     |   |  |  |  |
|---|------------|---|--|--|--|
| B | 2019-4-20  |   |  |  |  |
| C | 2021-10-26 | 4 |  |  |  |
|   |            |   |  |  |  |
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SOT-363 塑封封装双 NPN 半导体三极管。

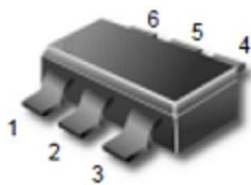
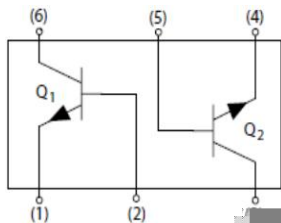
Double silicon NPN transistor in a SOT-363 Plastic Package.

低电压，低电流。无卤产品。

Low current, Low voltage. HF Product.

用于普通放大及开关。

General purpose amplifier and switching.



PIN 1、4 : Emitter

PIN 2、5 : Base

PIN 3、6 : Collector

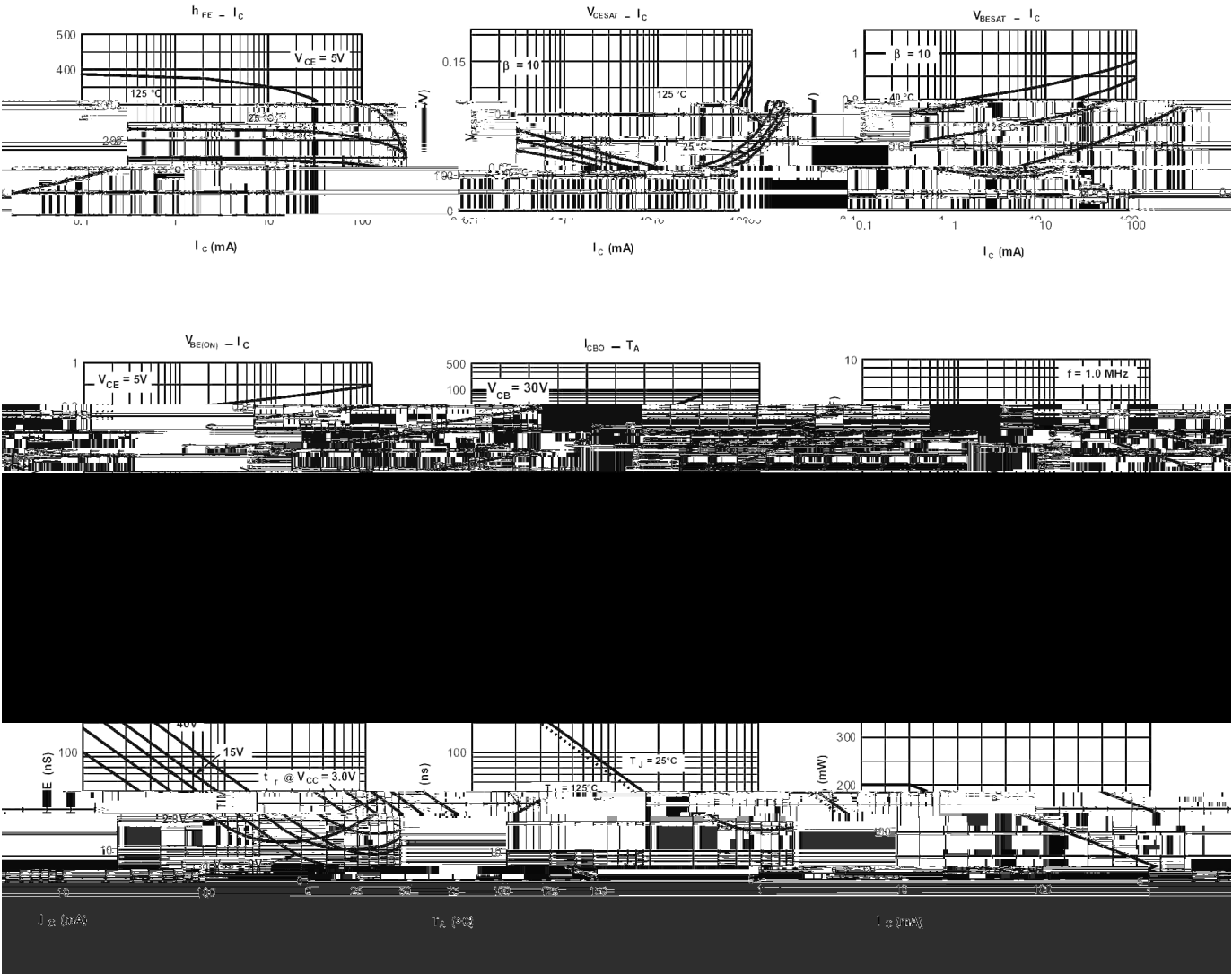
See Marking Instructions.



| Parameter                    | Symbol    | Rating  | Unit |
|------------------------------|-----------|---------|------|
| Collector to Base Voltage    | $V_{CBO}$ | 60      | V    |
| Collector to Emitter Voltage | $V_{CEO}$ | 40      | V    |
| Emitter to Base Voltage      | $V_{EBO}$ | 6.0     | V    |
| Collector Current            | $I_C$     | 200     | mA   |
| Collector Power Dissipation  | $P_C$     | 200     | mW   |
|                              | $*P_C$    | 350     | mW   |
| Junction Temperature         | $T_j$     | 150     | °C   |
| Storage Temperature Range    | $T_{stg}$ | -55~150 | °C   |

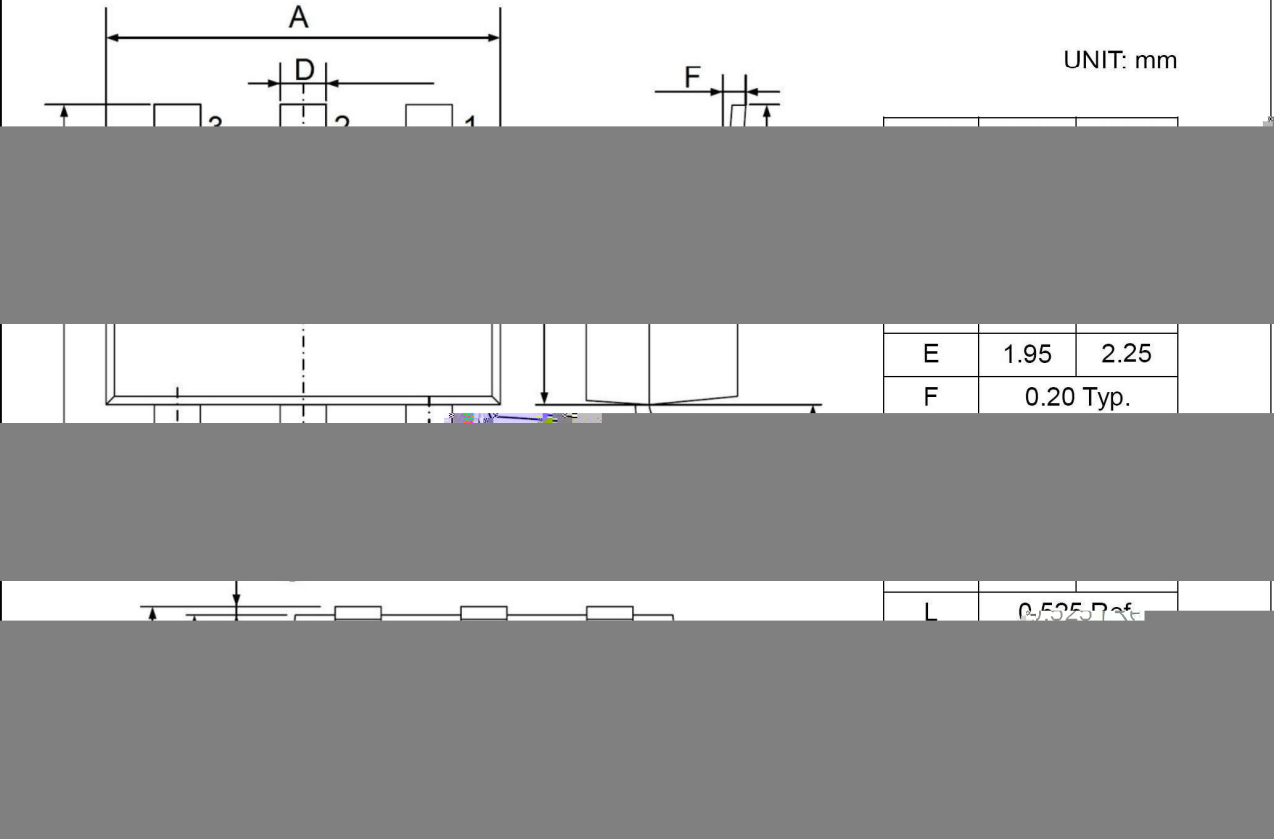
\*When mounted on a 7×5×0.6mm ceramic board

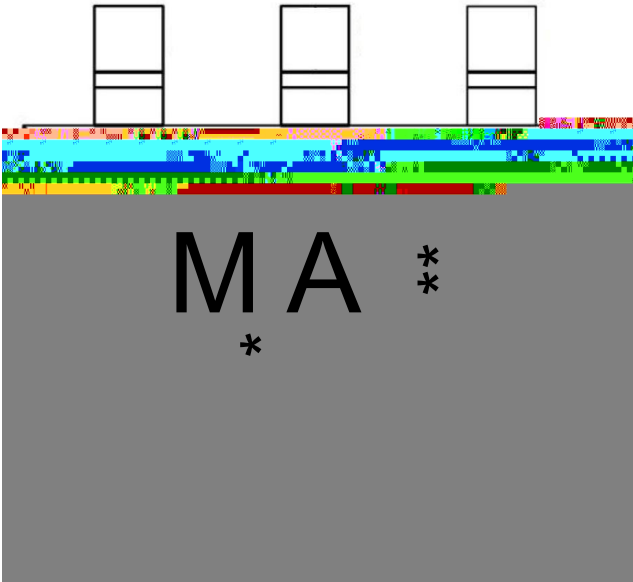
| Parameter                              | Symbol           | Test Conditions           | Min  | Typ | Max  | Unit    |
|----------------------------------------|------------------|---------------------------|------|-----|------|---------|
| Collector to Base Breakdown Voltage    | $V_{CBO}$        | $I_C=10\mu A$ $I_E=0$     | 60   |     |      | V       |
| Collector to Emitter Breakdown Voltage | $V_{CEO}$        | $I_C=1.0mA$ $I_B=0$       | 40   |     |      | V       |
| Emitter to Base Breakdown Voltage      | $V_{EBO}$        | $I_E=10\mu A$ $I_C=0$     | 6.0  |     |      | V       |
| Collector Cut-Off Current              | $I_{CBO}$        | $V_{CB}=30V$ $I_E=0$      |      |     | 0.05 | $\mu A$ |
| Emitter Cut-Off Current                | $I_{EBO}$        | $V_{EB}=3.0V$ $I_C=0$     |      |     | 0.05 | $\mu A$ |
| DC Current Gain                        | $h_{FE(1)}$      | $V_{CE}=1.0V$ $I_C=10mA$  | 100  |     | 300  |         |
|                                        | $h_{FE(2)}$      | $V_{CE}=1.0V$ $I_C=100mA$ | 30   |     |      |         |
|                                        | $h_{FE(3)}$      | $V_{CE}=1.0V$ $I_C=50mA$  | 60   |     |      |         |
|                                        | $h_{FE(4)}$      | $V_{CE}=1.0V$ $I_C=1.0mA$ | 70   |     |      |         |
|                                        | $h_{FE(5)}$      | $V_{CE}=1.0V$ $I_C=0.1mA$ | 40   |     |      |         |
| Collector-Emitter Saturation Voltage   | $V_{CE(sat)(1)}$ | $I_C=10mA$ $I_B=1.0mA$    |      |     | 0.2  | V       |
|                                        | $V_{CE(sat)(2)}$ | $I_C=50mA$ $I_B=5.0mA$    |      |     | 0.3  | V       |
| Base-Emitter Saturation Voltage        | $V_{BE(sat)(1)}$ | $I_C=10mA$ $I_B=1.0mA$    | 0.65 |     | 0.85 | V       |





# SOT-363-6L





● “ ”

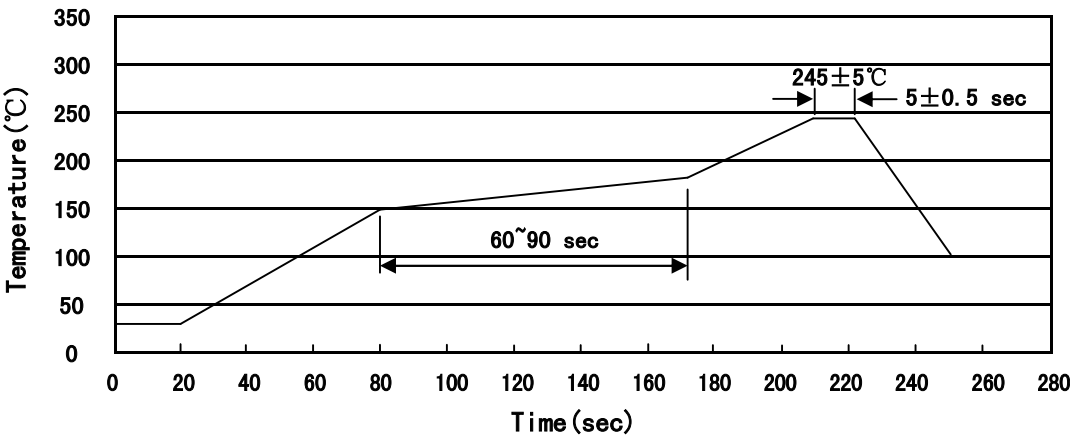
Note:



Product Type Code  
Lot No. Code, code change with Lot No.



Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

150 180

60 90sec;

1.Preheating:150~180°C, Time:60~90sec.
- 2

245±5

5±0.5sec;

2.Peak Temp.:245±5°C, Duration:5±0.5sec.
- 3

2 10°C/sec.

3. Cooling Speed: 2~10°C/sec.

260±5°C

10±1 sec.

Temp.:260±5°C

Time:10±1 sec

/ REEL

| Package Type<br>封装形式 | Units 包装数量         |                         |                        |                              |                        | Dimension 包装尺寸 (unit: mm <sup>3</sup> ) |             |             |
|----------------------|--------------------|-------------------------|------------------------|------------------------------|------------------------|-----------------------------------------|-------------|-------------|
|                      | Units/Reel<br>只/卷盘 | Reels/Inner Box<br>卷盘/盒 | Units/Inner Box<br>只/盒 | Inner Boxes/Outer Box<br>盒/箱 | Units/Outer Box<br>只/箱 | Reel                                    | Inner Box 盒 | Outer Box 箱 |
| SOT-363              | 3,000              | 10                      | 30,000                 | 6                            | 1 0,000                | "                                       | 1 0 1 0 1 0 | 3 0 3 0     |