

修订记录 / Revised record

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## 描述 / Descriptions

Silicon Diode in a SOT-363 Plastic Package.

## 特征 / Features

Small signal diode, Fast Switching Speed. HF Product.

## 用途 / Applications

High Conductance Ultra Fast Diode.

## 内部等效电路 / Equivalent Circuit

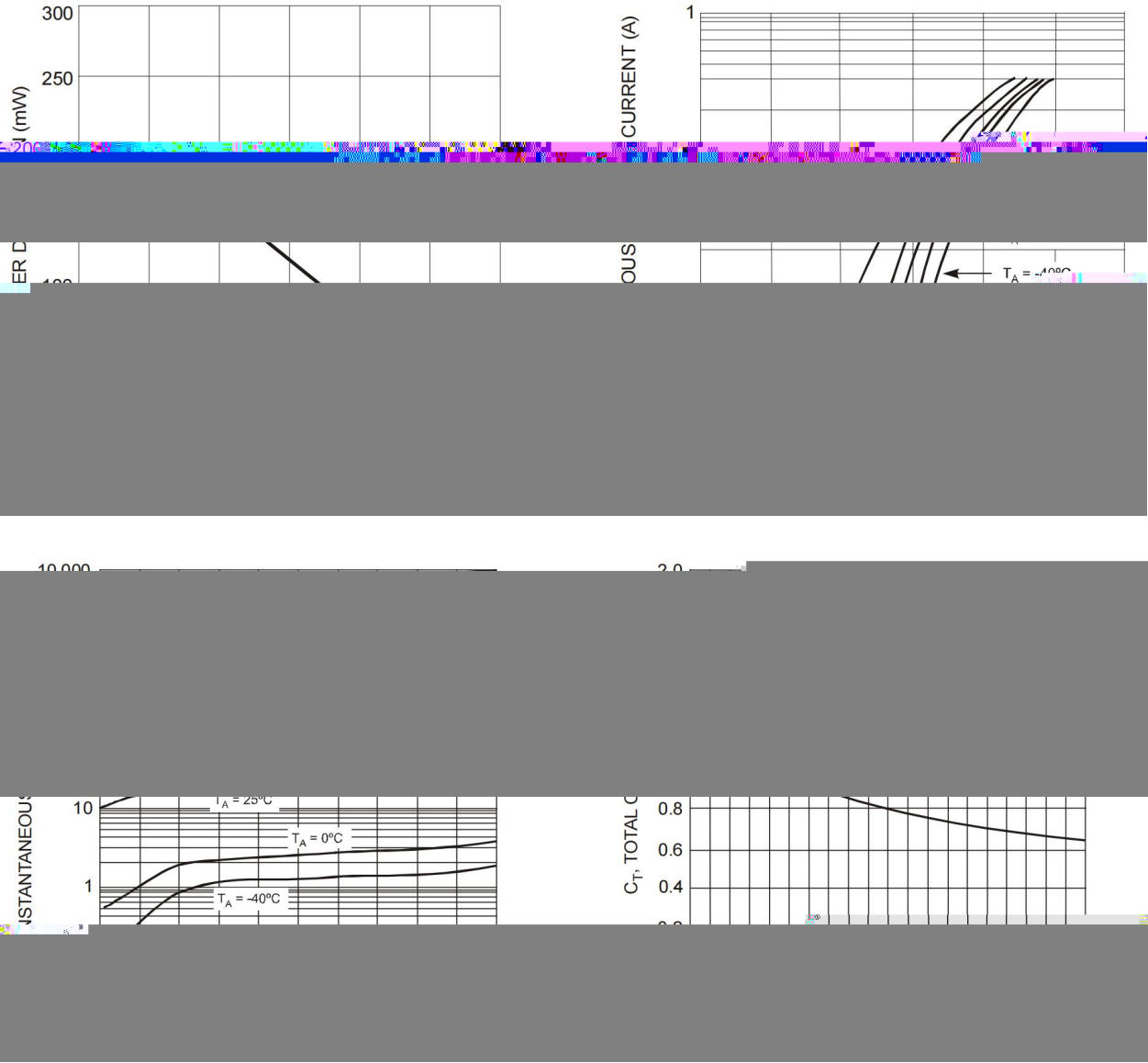
## 放大及印章代码 / $h_{FE}$ Classifications & Marking

See Marking Instructions.

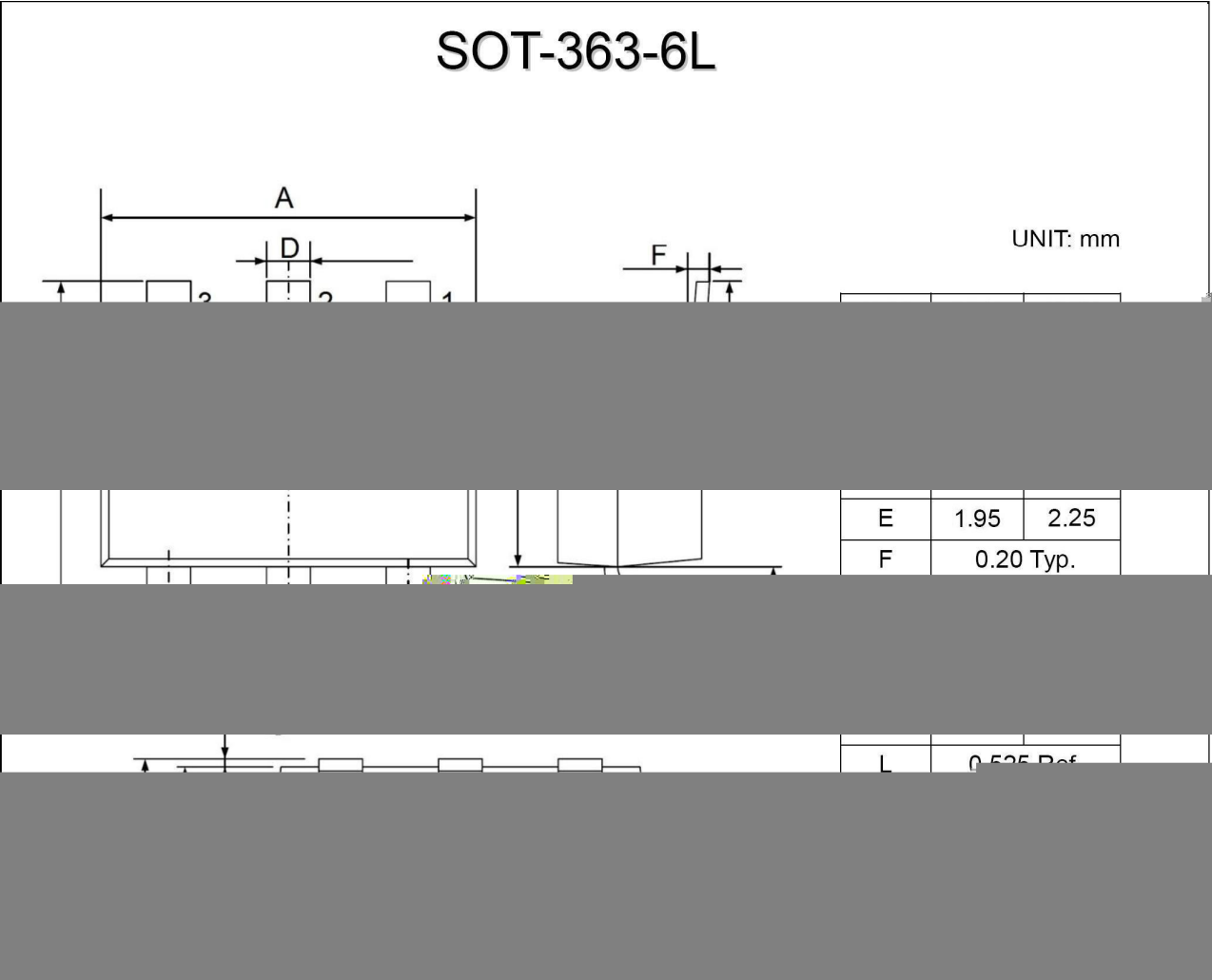
| Parameter                                                                              | Symbol          | Rating                     | Unit          |
|----------------------------------------------------------------------------------------|-----------------|----------------------------|---------------|
| Non-Repetitive Peak Reverse Voltage                                                    | $V_{RM}$        | 100                        | V             |
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage | $V_{RRM}$       | 75                         | V             |
|                                                                                        | $V_{RWM}$       |                            |               |
|                                                                                        | $V_R$           |                            |               |
| RMS Reverse Voltage                                                                    | $V_{R(RMS)}$    | 53                         | V             |
| Forward Continuous Current                                                             | $I_{FM}$        | 215                        | mA            |
| Non-Repetitive Peak Forward Surge Current@8.3mS                                        | $I_{FSM}$       | 2.0                        | A             |
| Power Dissipation                                                                      | $P_D$           | 200                        | mW            |
| Thermal Resistance Junction to Ambient Air                                             | $R_{\theta JA}$ | 625                        | $^{\circ}C/W$ |
| Operating and Storage Temperature Range                                                | $T_J, T_{STG}$  | -65 <sup>o</sup> F to +150 | $^{\circ}C$   |

| Parameter                 | Symbol      | Test Conditions                 | Min | Max   | Unit    |
|---------------------------|-------------|---------------------------------|-----|-------|---------|
| Reverse Breakdown Voltage | $V_{(BR)R}$ | $I_R = 2.5 \mu A$               | 75  |       | V       |
| Forward Voltage           | $V_F$       | $I_F = 1.0mA$                   |     | 0.715 | V       |
|                           |             | $I_F = 10mA$                    |     | 0.855 |         |
|                           |             | $I_F = 50mA$                    |     | 1.0   |         |
|                           |             | $I_F = 150mA$                   |     | 1.25  |         |
| Reverse Current           | $I_R$       | $V_R = 75V$                     |     | 2.5   | $\mu A$ |
|                           |             | $V_R = 20V$                     |     | 25    | nA      |
| Total Capacitance         | $C_T$       | $V_R = 0, f = 1.0MHz$           |     | 2.0   | pF      |
| Reverse Recovery Time     | $t_{rr}$    | $I_F = I_R = 10mA,$<br>$I_{rr}$ |     |       |         |

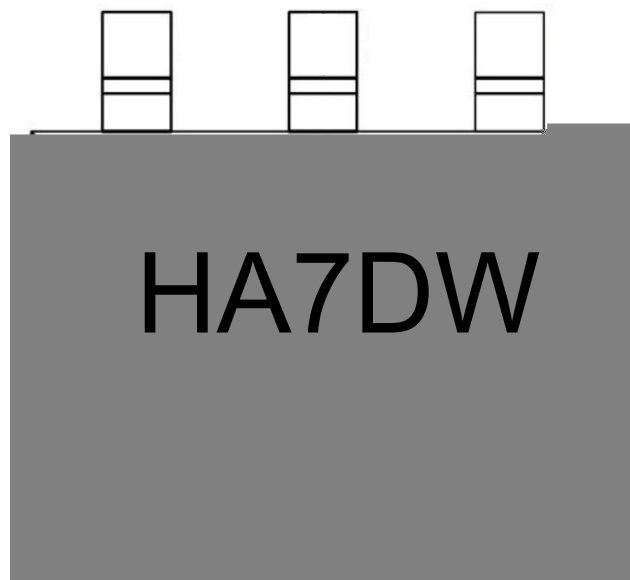
电参数曲线图 / Electrical Characteristic Curve(NPN)



外形尺寸图 / Package Dimensions



**印章说明 / Marking Instructions**

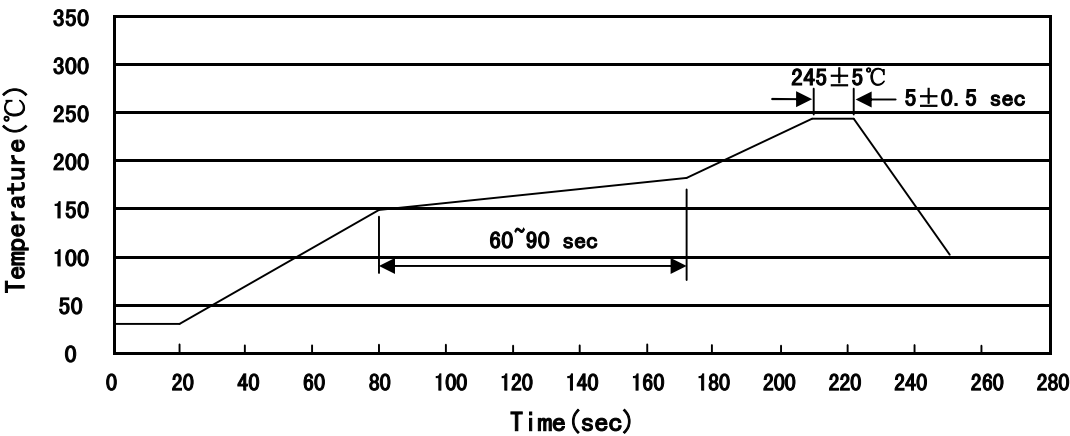


● 1  
HA7DW

Note:

● "1" Pin  
HA7DW Product Type Code

回流焊温度曲线图(无铅) / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- |   |     |     |    |         |                                         |
|---|-----|-----|----|---------|-----------------------------------------|
| 1 | 150 | 180 | 60 | 90sec;  | 1.Preheating:150~180 , 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.            |

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

260 5                      10 1 sec.                      Temp.:260±5°C                      Time:10±1 sec

包装规格 / Packaging SPEC.

/ REEL

| Package Type | Units              |                         |                        |                              |                        | Dimension (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   | Outer Box |
| SOT-363      | 3,000              | 10                      | 30,000                 | 6                            | 1 0000                 | "                                 | 1 0 1 0 1 0 | 3 0 3 0   |

使用说明 / Notices