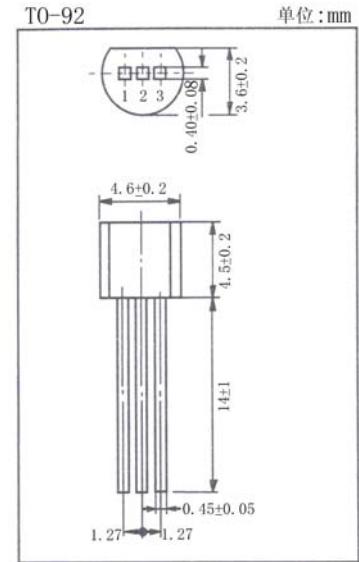
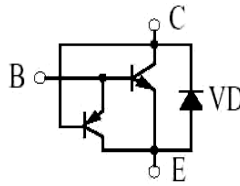


用途：主要用于节能灯、日光灯电子镇流器及其它开关、振荡电路。

Purpose: High frequency electronic lighting ballast applications, converters, inverters, switching regulators, etc.

极限参数/Absolute maximum ratings( $T_a=25^\circ\text{C}$ )

| 参数符号<br>Symbol              | 数值<br>Rating | 单位<br>Unit       |
|-----------------------------|--------------|------------------|
| $V_{CB0}$                   | 600          | V                |
| $V_{CE0}$                   | 400          | V                |
| $V_{EB0}$                   | 9.0          | V                |
| $I_C$                       | 0.5          | A                |
| $P_C(T_a=25^\circ\text{C})$ | 1.0          | W                |
| $T_j$                       | 150          | $^\circ\text{C}$ |
| $T_{\text{sag}}$            | -55~150      | $^\circ\text{C}$ |



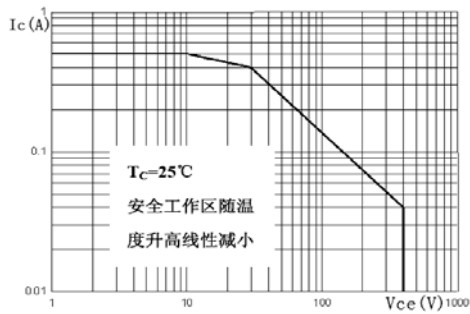
引脚：1. E 2. C 3. B

电性能参数/Electrical characteristics( $T_a=25^\circ\text{C}$ )

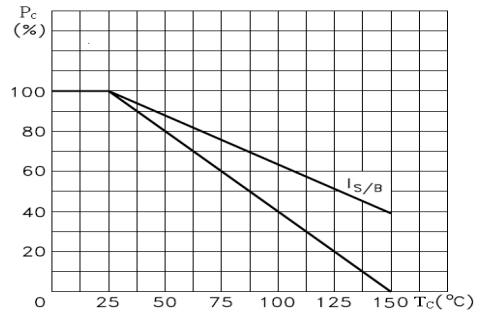
| 参数符号<br>Symbol | 测试条件<br>Test condition |                    | 数值<br>Rating    |            |            | 单位<br>Unit    |
|----------------|------------------------|--------------------|-----------------|------------|------------|---------------|
|                |                        |                    | 最小值<br>Min      | 典型值<br>Typ | 最大值<br>Max |               |
| $V_{CB0}$      | $I_C=1\text{mA}$       | $I_E=0$            | 600             |            |            | V             |
| $V_{CE0}$      | $I_C=10\text{mA}$      | $I_B=0$            | 400             |            |            | V             |
| $V_{EB0}$      | $I_E=1\text{mA}$       | $I_C=0$            | 9.0             |            |            | V             |
| $I_{CB0}$      | $V_{CB}=600\text{V}$   | $I_E=0$            |                 |            | 0.1        | mA            |
| $I_{CE0}$      | $V_{CE}=400\text{V}$   | $I_B=0$            |                 |            | 0.1        | mA            |
| $I_{EB0}$      | $V_{EB}=9.0\text{V}$   | $I_C=0$            |                 |            | 0.1        | mA            |
| $h_{FE}$       | $V_{CE}=5\text{V}$     | $I_C=100\text{mA}$ | 10              |            | 40         |               |
| $V_{CE(sat)}$  | $I_C=100\text{mA}$     | $I_B=20\text{mA}$  |                 |            | 0.5        | V             |
| $V_{BE(sat)}$  | $I_C=100\text{mA}$     | $I_B=20\text{mA}$  |                 |            | 1.2        | V             |
| $t_f$          | $V_{CE}=5\text{V}$     | $I_C=0.1\text{A}$  |                 |            | 0.8        | $\mu\text{S}$ |
| $t_s$          | (UI9600)               |                    |                 |            | 3.0        | $\mu\text{S}$ |
| $f_T$          | $V_{CE}=10\text{V}$    | $I_C=50\text{mA}$  | $f=1\text{MHz}$ | 5          |            | MHz           |

# MJE13002DE1 (3DD13002DE1)

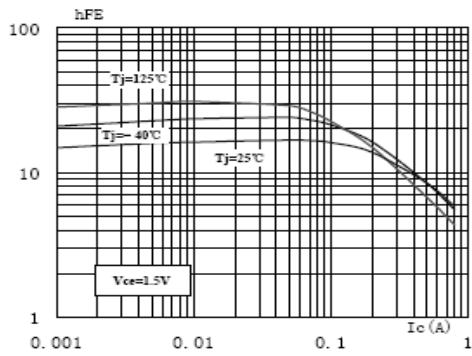
SOA (DC)



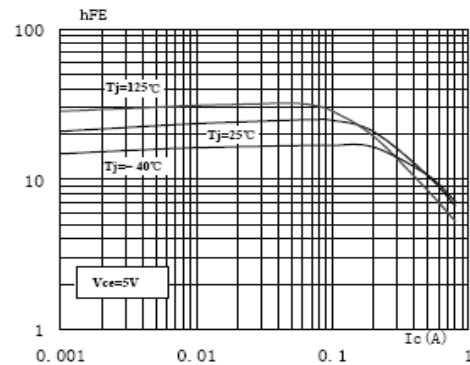
Pc-Tc



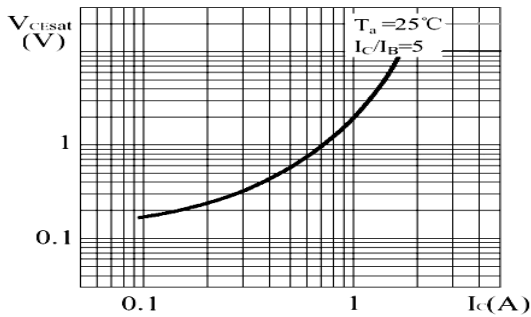
hFE-Ic



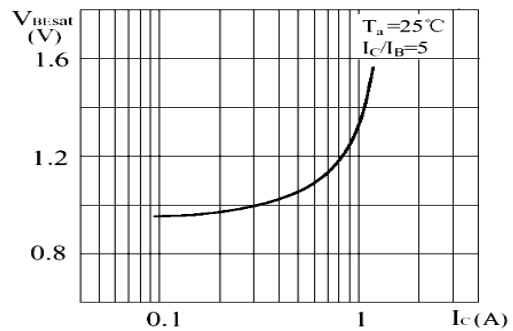
hFE-Ic



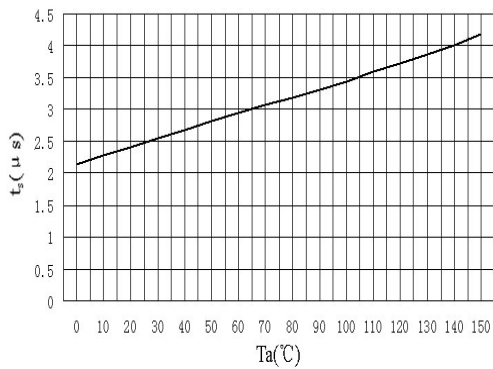
Vces-Ic



Vbes-Ic



ts-Ta



hFE-Ta

