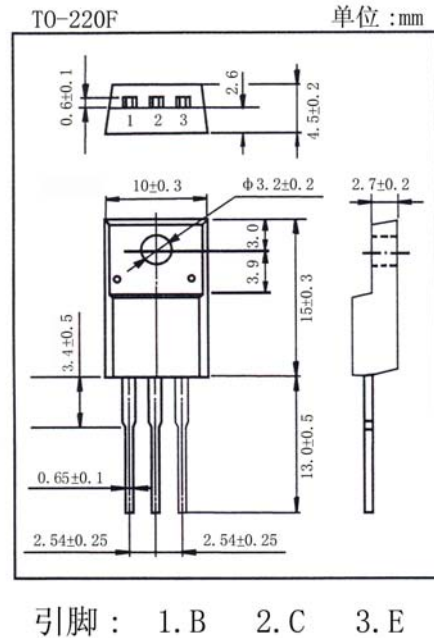


用途：主要用于节能灯、日光灯电子镇流器及其它开关、振荡电路。

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

极限参数/Absolute maximum ratings(Ta=25°C)

| 参数符号 Symbol | 数值 Rating | 单位 Unit |
|-----------------------------|--------------|------------|
| V_{CBO} | 600 | V |
| V_{CEO} | 400 | V |
| V_{EBO} | 9.0 | V |
| I_C | 1.5 | A |
| $P_C(T_a=25^\circ\text{C})$ | 2.0 | W |
| $P_C(T_c=25^\circ\text{C})$ | 50 | W |
| T_j | 150 | °C |
| T_{stg} | -55~150 | °C |

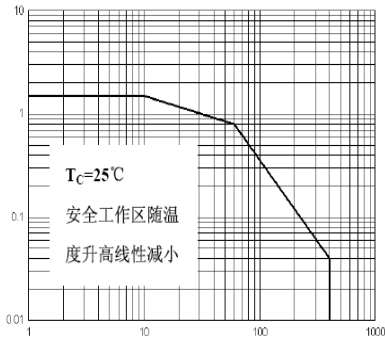


电性能参数/Electrical characteristics(Ta=25°C)

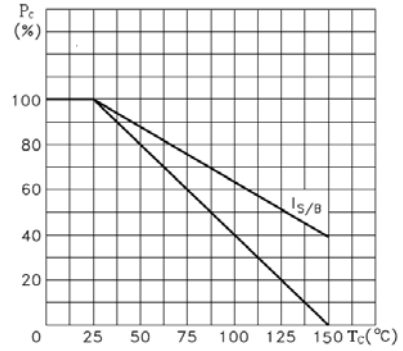
| 参数符号 Symbol | 测试条件 Test condition | | 数值 Rating | | | 单位 Unit |
|----------------|------------------------|--------------------|-------------------|------------|------------|---------------|
| | | | 最小值 Min | 典型值 Typ | 最大值 Max | |
| V_{CBO} | $I_C=1\text{mA}$ | $I_E=0$ | 600 | | | V |
| V_{CEO} | $I_C=10\text{mA}$ | $I_B=0$ | 400 | | | V |
| V_{EBO} | $I_E=1\text{mA}$ | $I_C=0$ | 9.0 | | | V |
| I_{CBO} | $V_{CB}=-600\text{V}$ | $I_E=0$ | | | 0.1 | mA |
| I_{CEO} | $V_{CE}=400\text{V}$ | $I_B=0$ | | | 0.1 | mA |
| I_{EBO} | $V_{EB}=9.0\text{V}$ | $I_C=0$ | | | 0.1 | mA |
| h_{FE} | $V_{CE}=5.0\text{V}$ | $I_C=0.2\text{A}$ | 10 | | 40 | |
| $V_{CE(sat)}$ | $I_C=1.0\text{A}$ | $I_B=0.25\text{A}$ | | | 0.9 | V |
| $V_{BE(sat)}$ | $I_C=1.0\text{A}$ | $I_B=0.5\text{A}$ | | | 1.2 | V |
| f_T | $V_{CE}=10\text{V}$ | $I_C=0.1\text{A}$ | $f=1.0\text{MHz}$ | 5.0 | | MHz |
| t_f | $V_{CE}=5\text{V}$ | $I_C=250\text{mA}$ | | | 0.8 | μs |
| t_s | (UI9600) | | | | 4.0 | μs |

MJE13003K8 (3DD13003K8)

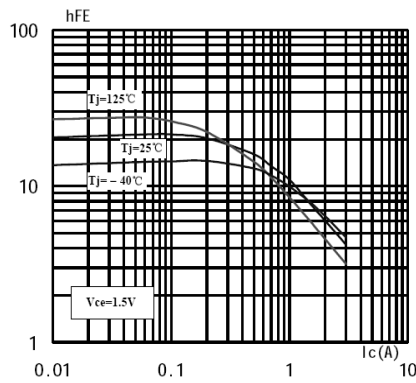
SOA (DC)



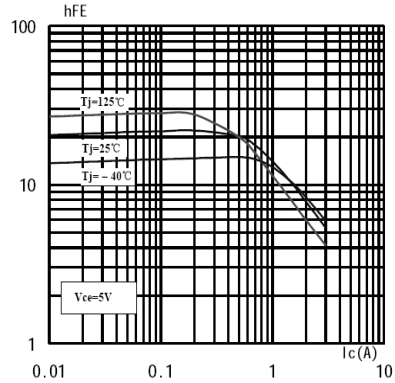
$P_C - T_C$



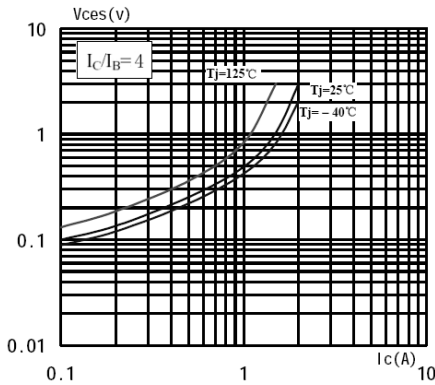
$h_{FE} - I_C$



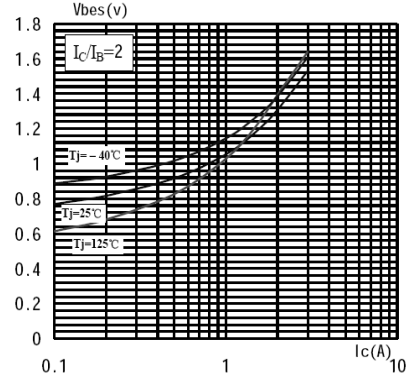
$h_{FE} - I_C$



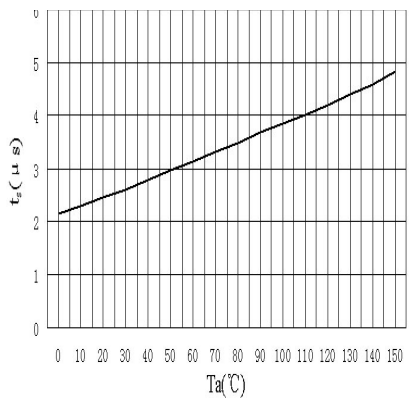
$V_{ces} - I_C$



$V_{bes} - I_C$



$t_s - T_a$



$h_{FE} - T_a$

