

MJE13003D13 (3DD13003D13)

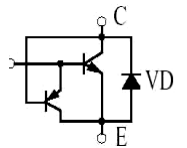
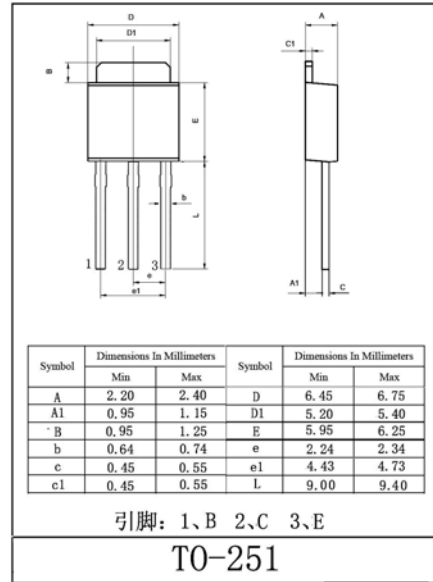
硅 NPN 半导体三极管/SILICON NPN TRANSISTOR

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 _{CB0} | 800 | V |
| V _{CE0} | 480 | V |
| V _{EB0} | 9.0 | V |
| I _C | 1.5 | A |
| P _C (Ta=25°C) | 1.25 | W |
| P _C (Tc=25°C) | 30 | W |
| T _j | 150 | °C |
| T _{stg} | -55~150 | °C |

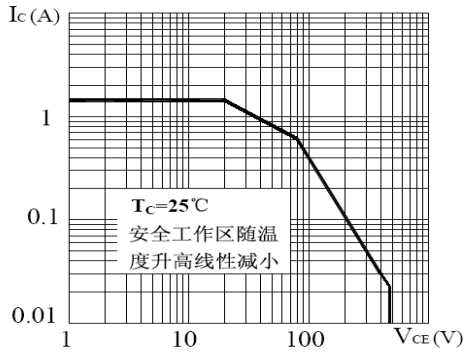


电性能参数/Electrical characteristics(Ta=25°C)

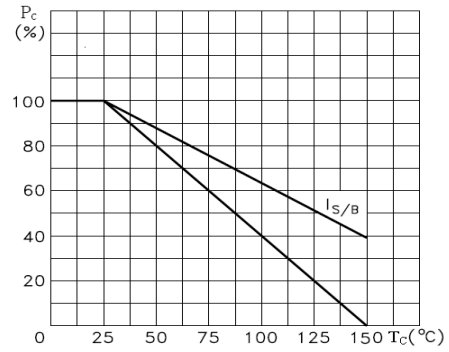
| 参数符号 Symbol | 测试条件 Test condition | 数值 Rating | | | 单位 Unit |
|----------------------|---|--------------|------------|------------|------------|
| | | 最小值 Min | 典型值 Typ | 最大值 Max | |
| V _{CB0} | I _C =1mA I _E =0 | 800 | | | V |
| V _{CE0} | I _C =10mA I _B =0 | 480 | | | V |
| V _{EB0} | I _E =1mA I _C =0 | 9.0 | | | V |
| I _{CB0} | V _{CB} =800V I _E =0 | | | 0.1 | mA |
| I _{CE0} | V _{CE} =480V I _B =0 | | | 0.1 | mA |
| I _{EB0} | V _{EB} =9.0V I _C =0 | | | 0.1 | mA |
| h _{FE} | V _{CE} =5.0V I _C =200mA | 10 | | 40 | |
| V _{CE(sat)} | I _C =1.0A I _B =250mA | | | 0.8 | V |
| V _{BE(sat)} | I _C =1.0A I _B =250mA | | | 1.2 | V |
| f _T | V _{CE} =10V I _C =100mA f=1.0MHz | 5.0 | | | MHz |
| t _f | V _{CE} =5V I _C =250mA (UI9600) | | | 0.6 | μs |
| t _s | | | | 3.5 | μs |

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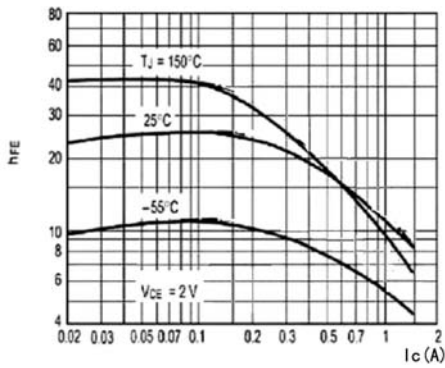
SOA (DC)



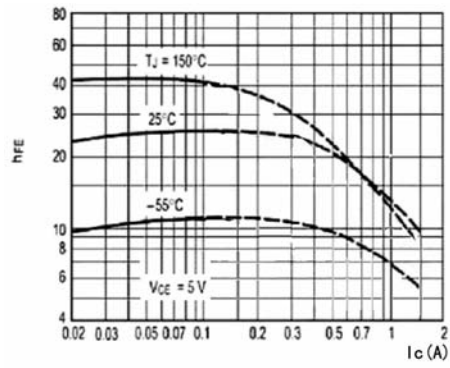
P_c-T_c



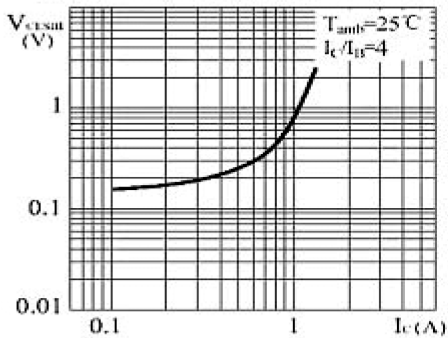
$h_{FE}-I_c$



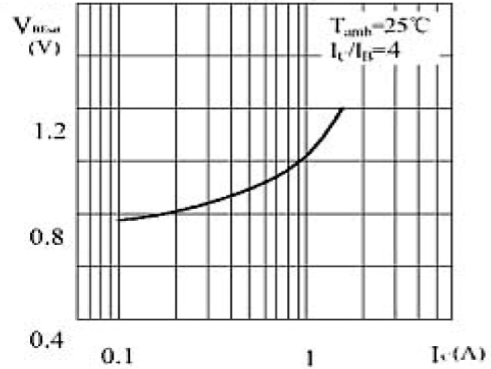
$h_{FE}-I_c$



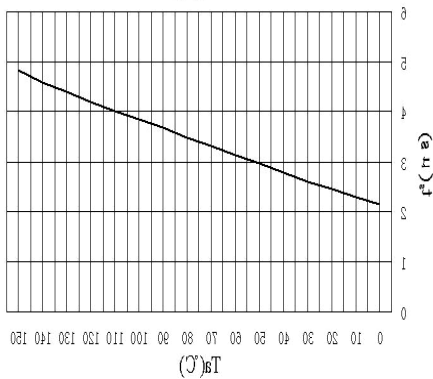
$V_{ces}-I_c$



$V_{bes}-I_c$



t_s-T_a



$h_{FE}-T_a$

