

MJE13003VN5 (3DD13003VN5)

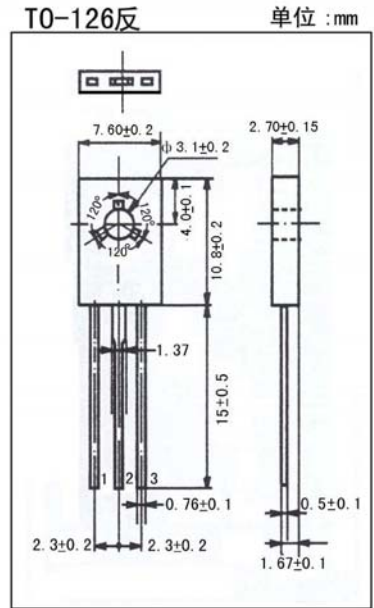
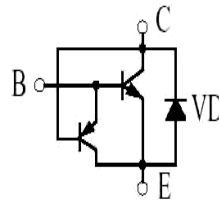
硅 NPN 半导体三极管/SILICON NPN TRANSISTOR

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 _{CBO} | 400 | V |
| V _{CEO} | 200 | V |
| V _{EBO} | 9.0 | V |
| I _C | 5.0 | A |
| P _C (Ta=25°C) | 1.25 | W |
| P _C (Tc=25°C) | 50 | W |
| T _j | 150 | °C |
| T _{stg} | -55~150 | °C |



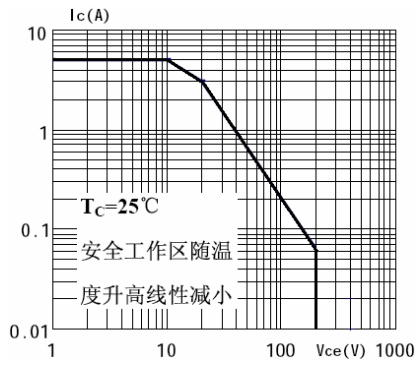
引脚：1. B 2. C 3. E

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

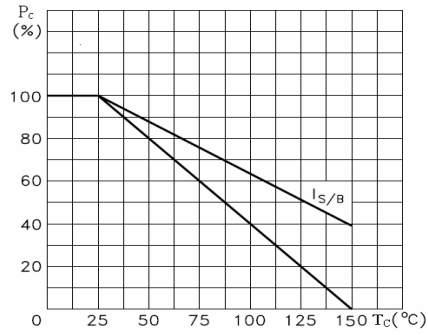
| 参数符号 Symbol | 测试条件 Test condition | | 数值 Rating | | | 单位 Unit |
|----------------------|------------------------|--------------------------------|--------------|------------|------------|------------|
| | | | 最小值 Min | 典型值 Typ | 最大值 Max | |
| V _{CBO} | I _C =1mA | I _E =0 | 400 | | | V |
| V _{CEO} | I _C =10mA | I _B =0 | 200 | | | V |
| V _{EBO} | I _E =1mA | I _C =0 | 9.0 | | | V |
| I _{CBO} | V _{CB} =400V | I _E =0 | | | 0.1 | mA |
| I _{CEO} | V _{CE} =200V | I _B =0 | | | 0.1 | mA |
| I _{EBO} | V _{EB} =9.0V | I _C =0 | | | 0.1 | mA |
| h _{FE} | V _{CE} =5.0V | I _C =0.5A | 10 | | 40 | |
| V _{CE(sat)} | I _C =2.0A | I _B =0.5A | | | 0.6 | V |
| V _{BE(sat)} | I _C =2.0A | I _B =0.5A | | | 1.2 | V |
| f _T | V _{CE} =10V | I _C =0.5A | f=1.0MHz | 4.0 | | MHz |
| T _{stg} | V _{CE} =5V | I _C =0.25A (UI9600) | | | 4.0 | μs |
| T _{off} | | | | | 0.6 | μs |

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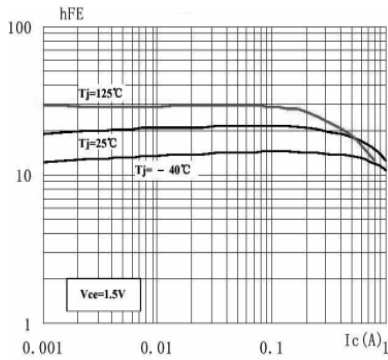
SOA (DC)



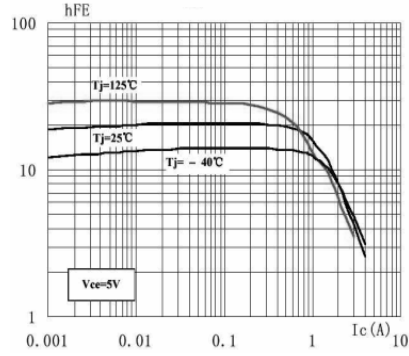
$P_c - T_c$



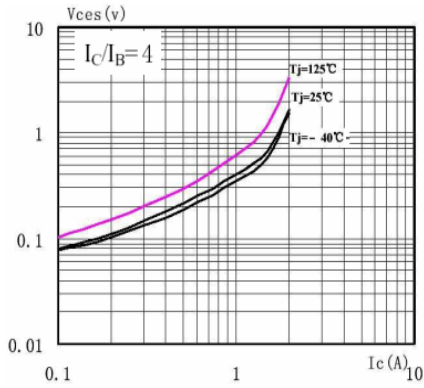
$h_{FE} - I_c$



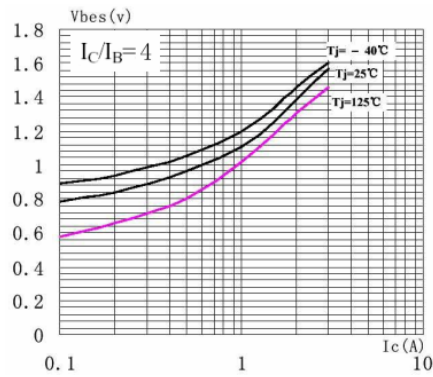
$h_{FE} - I_c$



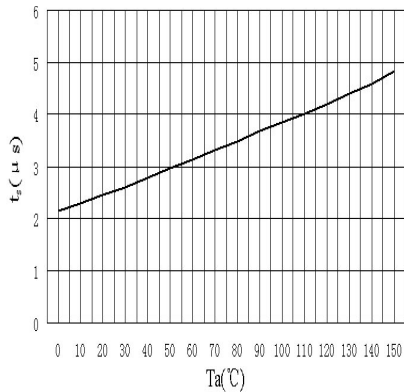
$V_{ces} - I_c$



$V_{bes} - I_c$



$t_s - T_a$



$h_{FE} - T_a$

