

MJE13003H3 (3DD13003H3)

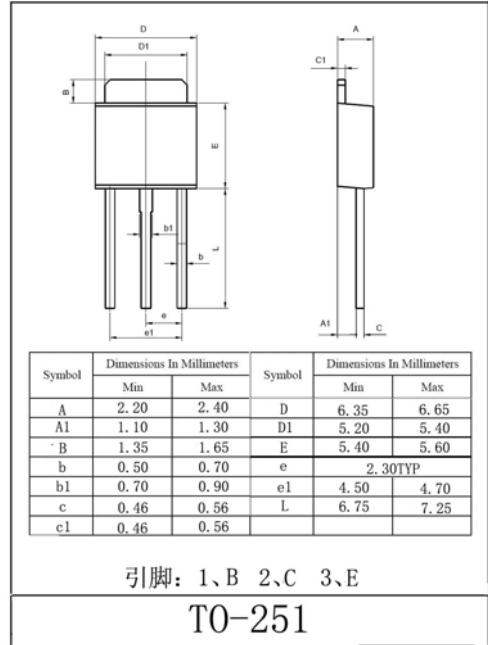
硅 NPN 半导体三极管/SILICON NPN TRANSISTOR

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}	700	V
V _{CE0}	450	V
V _{EBO}	9.0	V
I _C	1.2	A
P _C (Ta=25°C)	1.25	W
P _C (Tc=25°C)	40	W
T _j	150	°C
T _{stg}	-55~150	°C

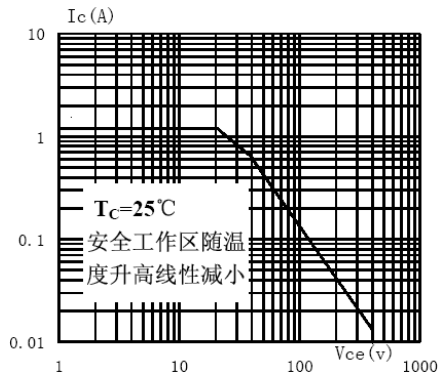


电性能参数/Electrical characteristics(Ta=25°C)

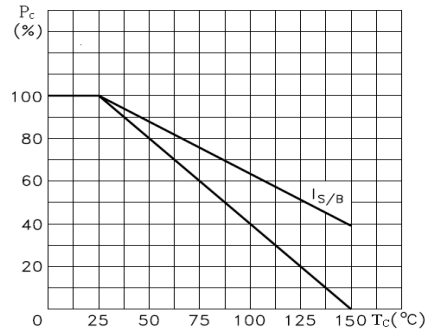
参数符号 Symbol	测试条件 Test condition		数值 Rating			单位 Unit
			最小值 Min	典型值 Typ	最大值 Max	
V _{CB0}	I _C =1mA	I _E =0	700			V
V _{CE0}	I _C =10mA	I _B =0	450			V
V _{EBO}	I _E =1mA	I _C =0	9.0			V
I _{CB0}	V _{CB} =700V	I _E =0			0.1	mA
I _{CE0}	V _{CE} =450V	I _B =0			0.1	mA
I _{EBO}	V _{EB} =9.0V	I _C =0			0.1	mA
h _{FE}	V _{CE} =5.0V	I _C =200mA	10		40	
V _{CE(sat)}	I _C =500mA	I _B =100mA			0.8	V
V _{BE(sat)}	I _C =500mA	I _B =100mA			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			0.6	μs
t _s	(UI9600)				3.5	μs

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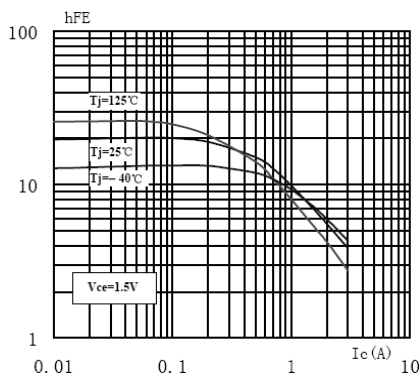
SOA (DC)



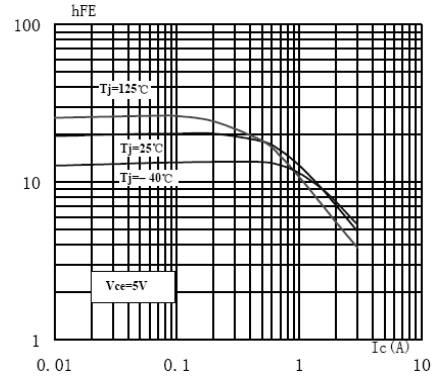
P_c-T_c



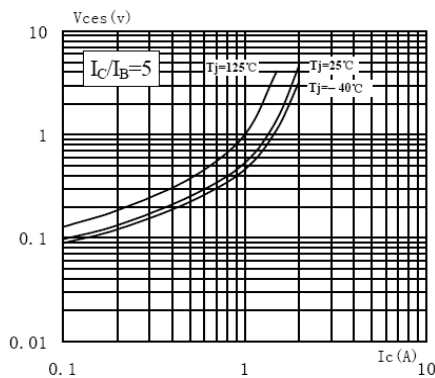
$h_{FE}-I_c$



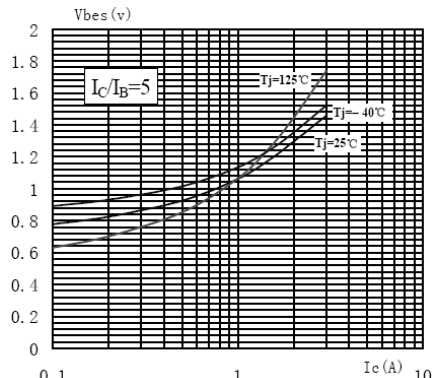
$h_{FE}-I_c$



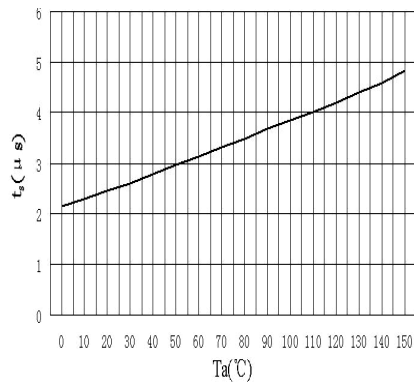
$V_{ces}-I_c$



$V_{bes}-I_c$



t_s-Ta



$h_{FE}-Ta$

