

MJE13003K7 (3DD13003K7)

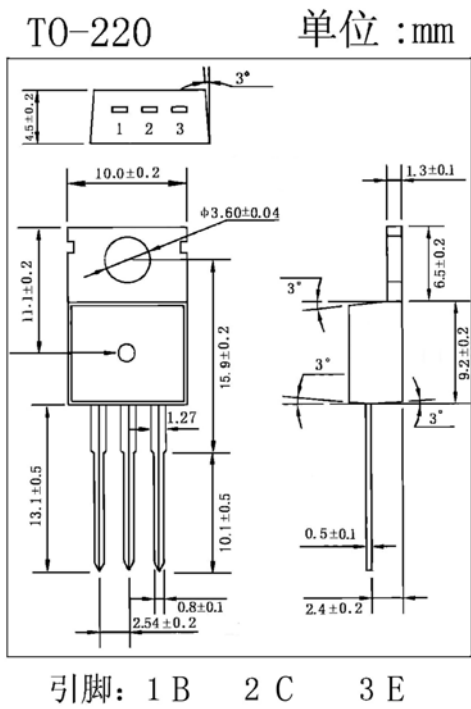
硅 NPN 半导体三极管/SILICON NPN TRANSISTOR

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℃)

参数符号 Symbol	数值 Rating	单位 Unit
V _{CB0}	600	V
V _{CE0}	400	V
V _{EB0}	9.0	V
I _C	1.5	A
P _C (Ta=25℃)	2.0	W
P _C (T _C =25℃)	50	W
T _j	150	℃
T _{stg}	-55~150	℃

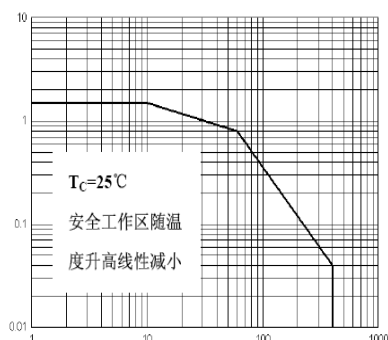


电性能参数/Electrical characteristics(Ta=25℃)

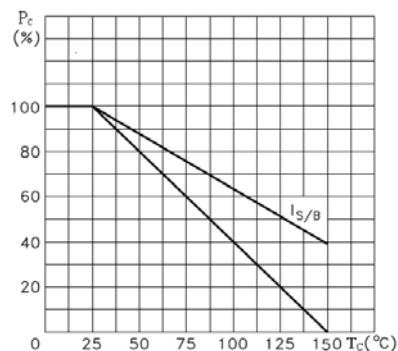
参数符号 Symbol	测试条件 Test condition		数值 Rating			单位 Unit
			最小值 Min	典型值 Typ	最大值 Max	
V _{CB0}	I _C =1mA	I _E =0	600			V
V _{CE0}	I _C =10mA	I _B =0	400			V
V _{EB0}	I _E =1mA	I _C =0	9.0			V
I _{CB0}	V _{CB} =600V	I _E =0			0.1	mA
I _{CE0}	V _{CE} =400V	I _B =0			0.1	mA
I _{EB0}	V _{EB} =9.0V	I _C =0			0.1	mA
h _{FE}	V _{CE} =5.0V	I _C =0.2A	10		40	
V _{CE(sat)}	I _C =1.0A	I _B =0.25A			0.9	V
V _{BE(sat)}	I _C =1.0A	I _B =0.5A			1.2	V
f _T	V _{CE} =10V	I _C =0.1A	f=1.0MHz	5.0		MHz
t _f	V _{CE} =5V	I _C =250mA			0.8	μs
t _S	(UI9600)				4.0	μs

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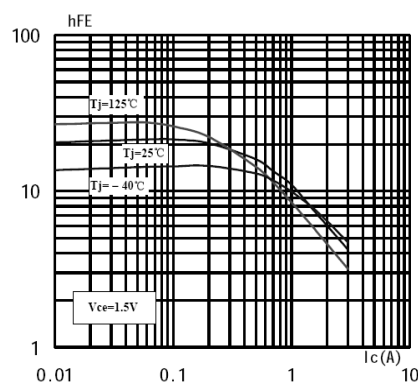
SOA (DC)



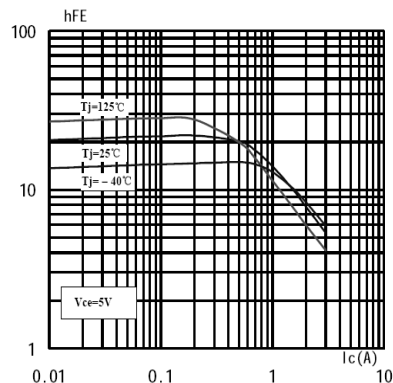
$P_c - T_c$



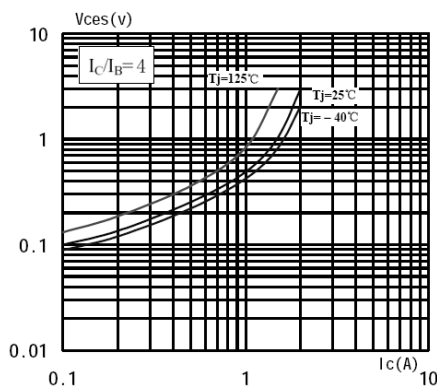
$h_{FE} - I_c$



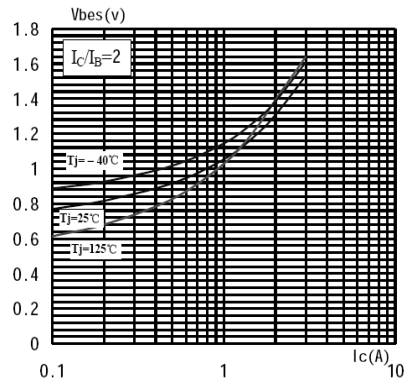
$h_{FE} - I_c$



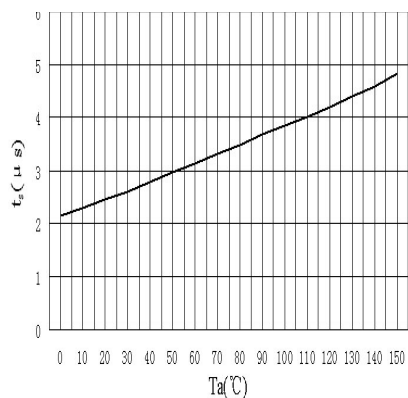
$V_{ces} - I_c$



$V_{bes} - I_c$



$t_s - T_a$



$h_{FE} - T_a$

