

MJE13003DK7 (3DD13003DK7)

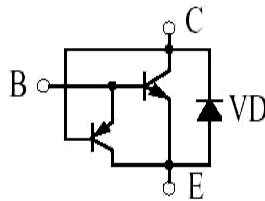
硅 NPN 半导体三极管/SILICON NPN TRANSISTOR

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.

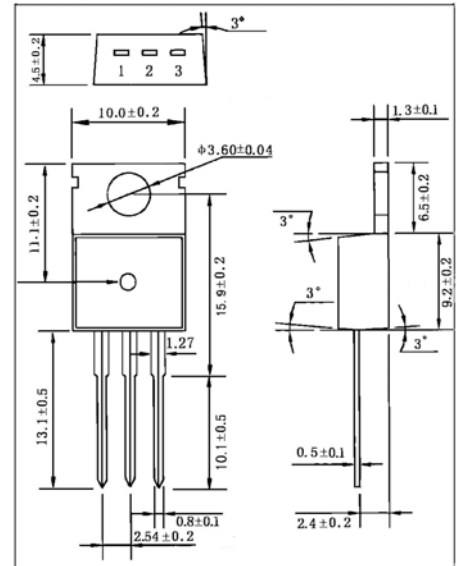
极限参数/Absolute maximum ratings(Ta=25°C)

参数符号 Symbol	数值 Rating	单位 Unit
V _{CB0}	600	V
V _{CE0}	400	V
V _{EBO}	9	V
I _C	1.75	A
P _C (Ta=25°C)	2.0	W
P _C (Tc=25°C)	50	W
T _j	150	°C
T _{stg}	-55~150	°C



T0-220

单位 :mm

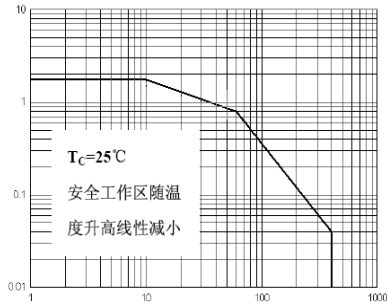


引脚：1 B 2 C 3 E

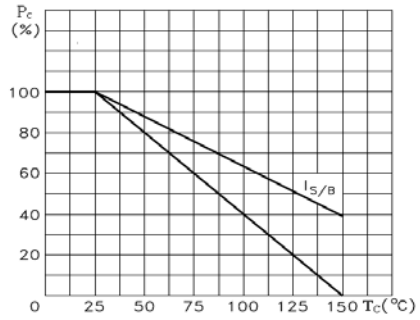
电性能参数/Electrical characteristics(Ta=25°C)

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 _{CB0}	I _C =1mA	I _E =0	600			V
V _{CE0}	I _C =10mA	I _B =0	400			V
V _{EBO}	I _E =1mA	I _C =0	9			V
I _{CB0}	V _{CB} =600V	I _E =0			0.1	mA
I _{CE0}	V _{CE} =400V	I _B =0			0.1	mA
I _{EBO}	V _{EB} =9V	I _C =0			0.1	mA
h _{FE}	V _{CE} =5V	I _C =0.2A	10		40	
V _{CE(sat)}	I _C =1A	I _B =0.25A			0.9	V
V _{BE(sat)}	I _C =1A	I _B =0.5A			1.2	V
f _T	V _{CE} =10V	I _C =0.1A	f=1MHz	5		MHz
t _s	V _{CE} =5V	I _C =250mA	(UI9600)		4	μs
t _f					0.8	μs

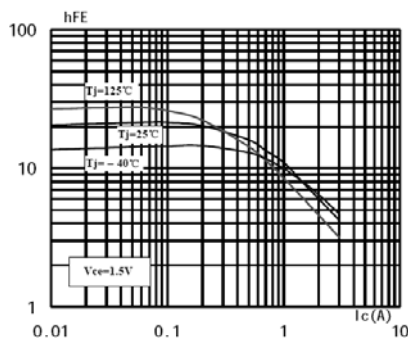
SOA (DC)



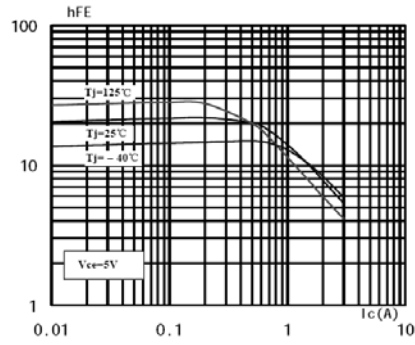
$P_C - T_C$



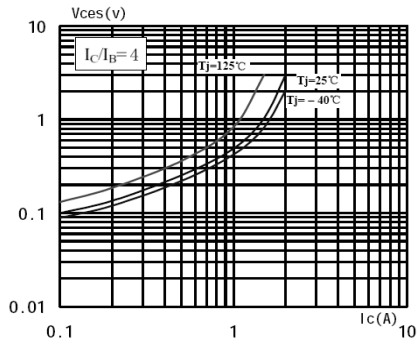
$h_{FE} - I_C$



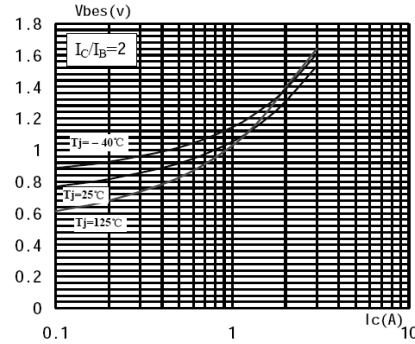
$h_{FE} - I_C$



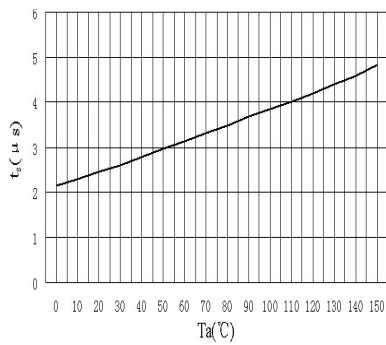
$V_{ces} - I_C$



$V_{bes} - I_C$



$t_s - T_a$



$h_{FE} - T_a$

