

MJE13003L5 (3DD13003L5)

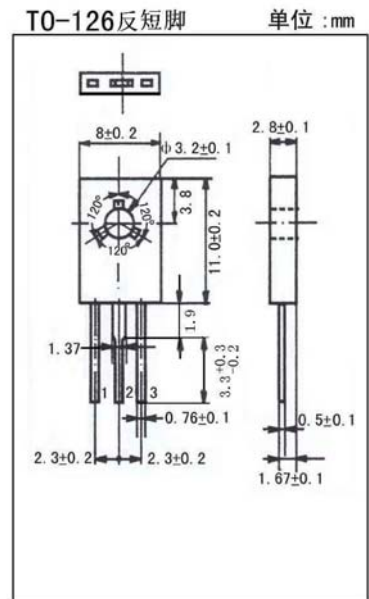
硅 NPN 半导体三极管/SILICON NPN TRANSISTOR

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}	900	V
V_{CEO}	530	V
V_{EBO}	9.0	V
I_C	1.5	A
I_{CP}	3.0	A
$P_C(Ta=25^\circ C)$	1.25	W
$P_C(Tc=25^\circ C)$	50	W
T_j	150	°C
T_{stg}	-55~150	°C



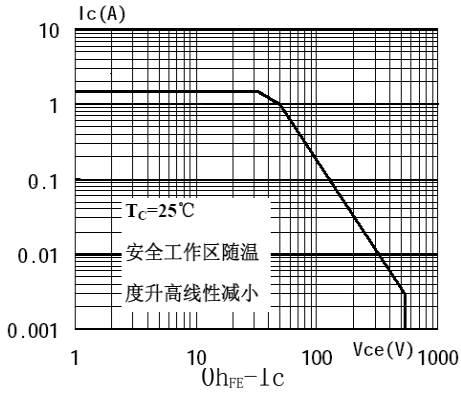
引脚：1. B 2. C 3. E

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

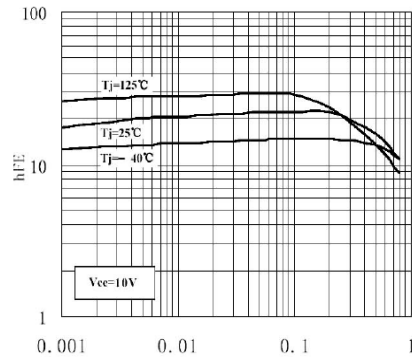
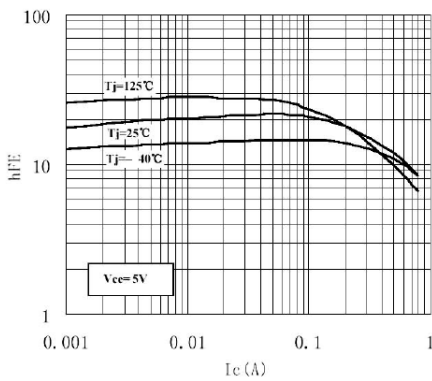
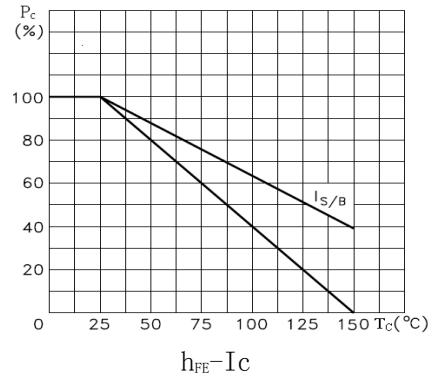
参数符号 Symbol	测试条件 Test condition		数值 Rating			单位 Unit
			最小值 Min	典型值 Typ	最大值 Max	
V_{CBO}	$I_C=1mA$	$I_E=0$	900			V
V_{CEO}	$I_C=10mA$	$I_B=0$	530			V
V_{EBO}	$I_E=1mA$	$I_C=0$	9			V
I_{CBO}	$V_{CB}=900V$	$I_E=0$			0.1	mA
I_{CEO}	$V_{CE}=530V$	$I_B=0$			0.1	mA
I_{EBO}	$V_{EB}=9.0V$	$I_C=0$			0.1	mA
$h_{FE(1)}$	$V_{CE}=10V$	$I_C=0.4A$	10		40	
$h_{FE(2)}$	$V_{CE}=10V$	$I_C=1.0mA$	15			
$h_{FE(3)}$	$V_{CE}=10V$	$I_C=1.0A$	6		40	
$V_{CE(sat)(1)}$	$I_C=0.5A$	$I_B=0.1A$			0.8	V
$V_{CE(sat)(2)}$	$I_C=1.5A$	$I_B=0.5A$			2.5	V
$V_{BE(sat)}$	$I_C=0.5A$	$I_B=0.1A$			1.2	V
f_T	$V_{CE}=10V$	$I_C=0.1A$	$f=1.0MHz$	5.0		MHz
t_f	$V_{CE}=5V$	$I_C=0.25A$			1.2	μs
t_s	(UI9600)			2.0	6.0	μs

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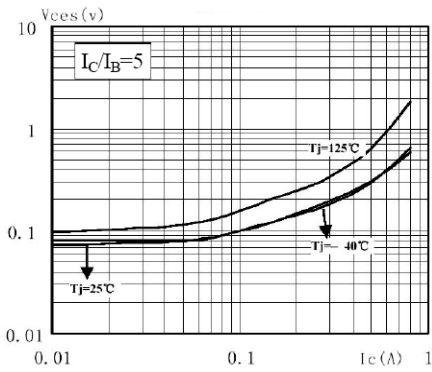
SOA (DC)



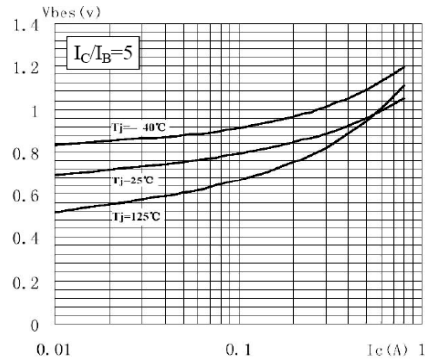
$P_c - T_c$



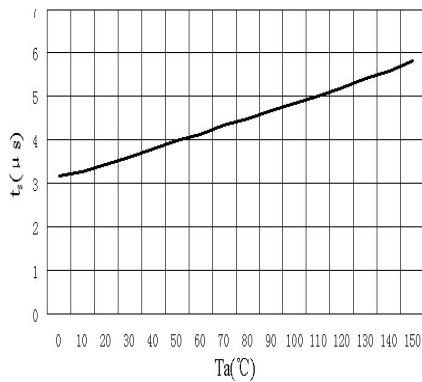
$V_{ces} - I_c$



$V_{bes} - I_c$



$t_s - T_a$



$h_{FE} - T_a$

