

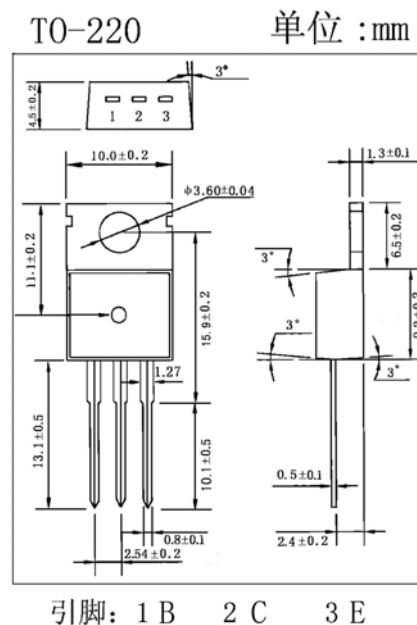
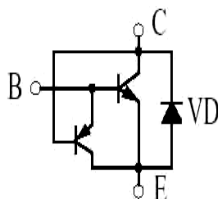
硅 NPN 半导体三极管/SILICON NPN TRANSISTOR

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_{CBO}	400	V
V_{CEO}	200	V
V_{EBO}	9.0	V
I_C	5.0	A
$P_C(T_a=25^{\circ}\text{C})$	2.0	W
$P_C(T_c=25^{\circ}\text{C})$	50	W
T_j	150	$^{\circ}\text{C}$
T_{stg}	$-55\sim 150$	$^{\circ}\text{C}$

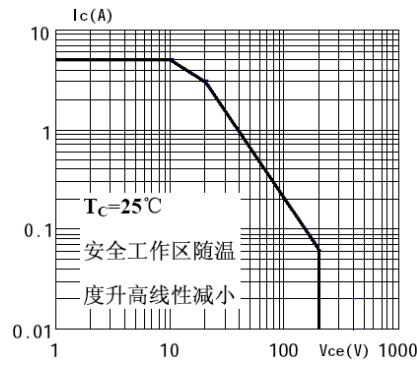


电性能参数/Electrical characteristics (Ta=25℃)

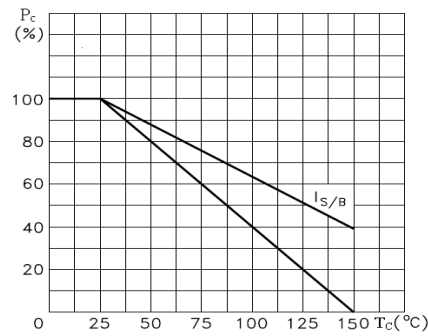
参数符号 Symbol	测试条件 Test condition		数值 Rating			单位 Unit
			最小值 Min	典型值 Typ	最大值 Max	
V_{CBO}	$I_C=1mA$	$I_E=0$	400			V
V_{CEO}	$I_C=10mA$	$I_B=0$	200			V
V_{EBO}	$I_E=1mA$	$I_C=0$	9.0			V
I_{CBO}	$V_{CB}=400V$	$I_E=0$			0.1	mA
I_{CEO}	$V_{CE}=200V$	$I_B=0$			0.1	mA
I_{EBO}	$V_{EB}=9.0V$	$I_C=0$			0.1	mA
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
t_s	$V_{CE}=5V$ $I_C=0.25A$ (UI9600)				4.0	μs
t_f					0.6	
f_T	$V_{CE}=10V$	$I_C=0.5A$ $f=1MHz$	4			MHz

MJE13003VN7 (3DD13003VN7)

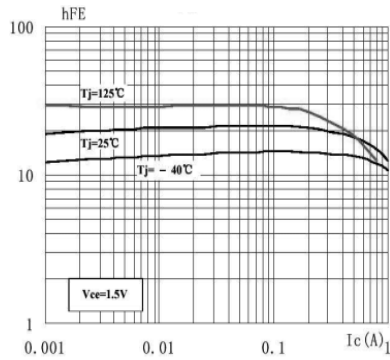
SOA (DC)



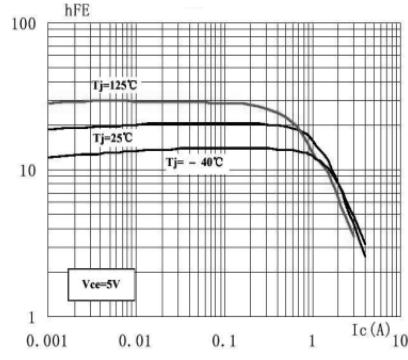
P_C-T_C



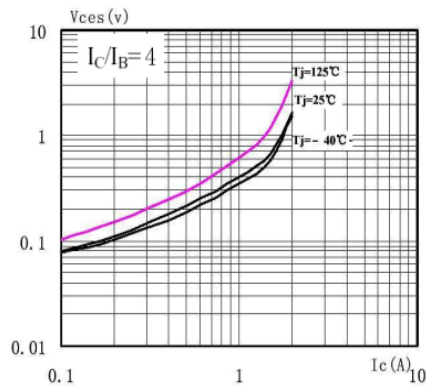
$h_{FE}-I_C$



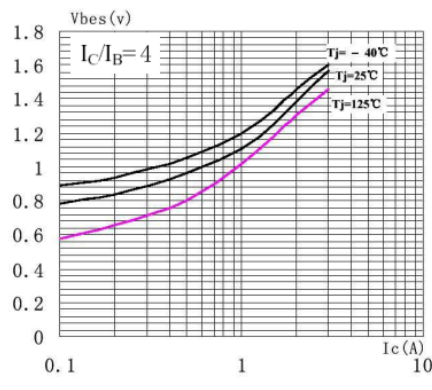
$h_{FE}-I_C$



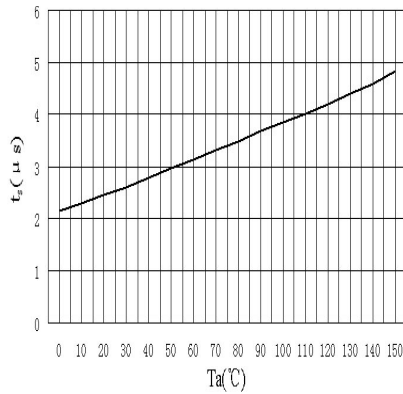
$V_{CES}-I_C$



$V_{BES}-I_C$



t_s-T_a



$h_{FE}-T_a$

